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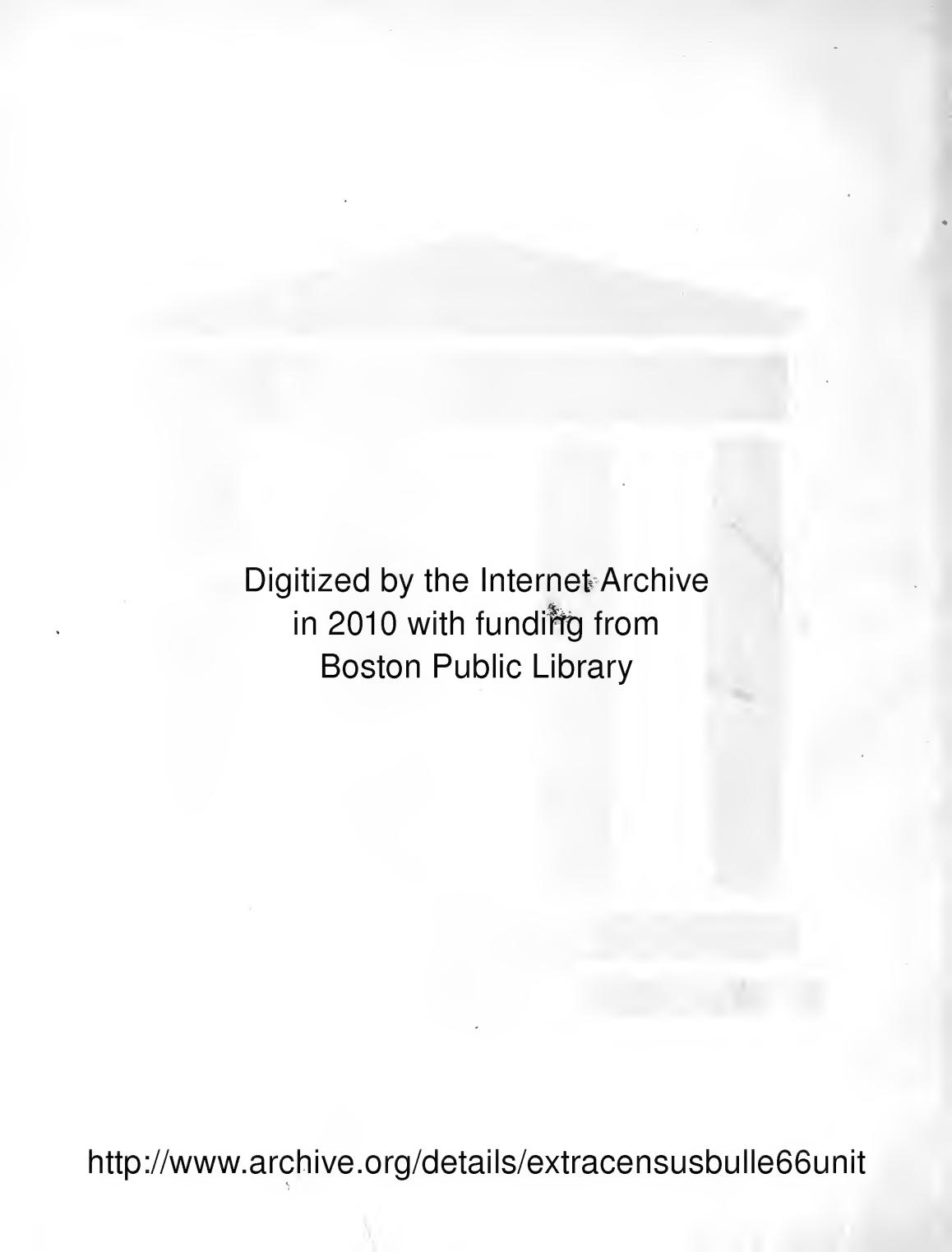
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# EXTRA CENSUS BULLETIN.

No. 66.

WASHINGTON, D. C.

March 10, 1894.

DEPARTMENT OF THE INTERIOR,

CENSUS OFFICE,

WASHINGTON, D. C., February 20, 1894.

SIR:

I have the honor to transmit a bulletin giving the statistics of manufactures in 165 principal cities, as prepared by the Division of Manufactures.

Very respectfully,

CARROLL D. WRIGHT,

*Commissioner of Labor in charge.*

The SECRETARY OF THE INTERIOR.

## STATISTICS OF MANUFACTURES.

THE 165 CITIES HAVING A POPULATION OF 20,000 AND OVER: 1890.

This bulletin presents by totals for each city the data collected for all classes of mechanical and manufacturing industries in the 165 cities of the United States having a population of 20,000 and over at the census of 1890. With the exception of mining and quarrying, the tables include every establishment of mechanical and manufacturing industry which was returned in these cities at the Eleventh Census as having a product valued at \$500 or more during the census year. The statistics pertaining to the generation of electricity for lighting and power purposes are confined to the totals for the cities in the state of New York, St. Louis, Mo., and Washington, D. C. In cities showing a decrease from the totals reported at the census of 1880, a special investigation has been made to verify the accuracy of the canvass. It is believed that the data constitute a substantially correct presentation of these urban manufactures. The fact that the agents of the Census Office experienced in some cases difficulty in obtaining reports from manufacturers, who neglected to comply with the requirements of the law, has caused the totals stated in some instances to be less than they would have been had these reports been included, but these omissions are comparatively few in number, and affect the statistical value of the data but slightly.

Establishments have been credited to the locality in which the works were situated, and when two or more plants owned by the same corporation, firm, or individual are located in the same city and engaged in the same industry, they are tabulated and counted as one establishment. It is impossible, however, to exactly locate the operations of establishments engaged in the manufacture of timber products classified as "Timber products not manufactured at mill", therefore the industry is credited to the place where the office of the establishment is located. When three or more establishments engaged in this industry are reported for a city, the total is presented separately in Exhibit A and not included in the city total, but when there are less than three establishments they are included in the total for the respective cities, in order to avoid disclosing the operations of individual establishments. The year covered by this report is the census year ending May 31, 1890.

At the Tenth Census the statistics of manufactures were published separately for but 100 principal cities. In comparing the results of the current inquiry with the returns of 1880, it should be borne in mind that radical changes have been made in both the form and the scope of the inquiry, also in the method of collecting the data. It will be observed that the item of "Miscellaneous expenses" is given for 1890 only. No previous census inquiry has

embraced the cost incurred in manufacturing operations other than wages and materials used. With the exception of a few special inquiries, the question used at the census of 1880 concerning capital was as follows: "Capital (real and personal) invested in the business". The inquiry at the Eleventh Census was more in detail and intended to include all the property or assets strictly pertaining to a manufacturing business, whether such property be owned, borrowed, or hired. The item of "Hired property" is necessarily to a large extent an estimate. It is shown in a separate column, but is not included in the value of direct investment shown in Table 2.

The question respecting employés and wages used at the Tenth Census generally called only for the "greatest number of hands employed at any one time during the year", also "the average number of hands employed", without designating the different classes, while the question used at the Eleventh Census called for the average number of employés to be reported by classes of officers, firm members, clerks; operatives, skilled and unskilled, and pieceworkers.

The cost of materials used is the reported cost at the place of consumption. The value of products is the reported value at the factory of the total product for the year, not including any allowance for commissions or expenses of selling. The difference between the apparent cost and the value of manufactured product as presented can not be taken as a correct indication of manufacturers' net profits, because many items of expense enter into the mercantile portion of the business, which branch is not within the scope of the census inquiry. The data furnished in the reports relating to depreciation of manufacturing plants are not sufficient to form a basis for correct computation, and therefore are omitted from these tables. The following industries were entirely omitted at the census of 1880, but are included in the totals presented for 1890, viz: bottling; cars and general shop construction and repairs by steam railroad companies; china decorating; clothing, women's, dressmaking; coffins and burial cases, trimming and finishing; cotton, cleaning and rehandling; cotton ginning; cotton waste; drug grinding; druggists' preparations, not including prescriptions; gas, illuminating and heating; hay and straw baling; millinery, custom work; petroleum refining.

The following table presents the totals of the manufacturing and mechanical industries as reported at the censuses of 1880 and 1890 for the 100 cities shown separately at the census of 1880:

TABLE 1.—SUMMARY FOR 100 PRINCIPAL CITIES: 1880-1890.

[See preceding text for explanation of data included.]

ITEMS.	1880 (a)	1890
Number of establishments reporting.....	78,033	167,844
Capital.....	\$1,384,879,147	b\$3,524,334,525
Average number of employés.....	1,431,076	2,581,237
Males above 16 years.....	1,008,196	1,990,332
Females above 15 years.....	330,059	588,491
Children.....	92,821	52,414
Total wages.....	\$55,748,845	c\$1,400,832,018
Cost of materials used.....	\$1,910,811,178	\$2,992,724,848
Value of products.....	\$3,018,418,756	\$5,621,258,583

a The difference between this total and that published in the reports of the Tenth Census is caused by the elimination of data which were duplicated under the head of "Mixed textiles", such data having been also included in the totals of that census for the different branches of the textile industry.

b Does not include the value of hired property.

c Includes officers, firm members, and clerks, and their salaries; this class was not reported separately at the census of 1880.

Table 2 presents the total for all classes of mechanical and manufacturing industries in 165 cities having a population of 20,000 and over, by city totals, the respective cities being arranged in alphabetical order.

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MANUFACTURES FOR 165 CITIES.

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## STATISTICS OF MANUFACTURES.

TABLE 2.—TOTALS FOR THE 165 CITIES HAVING

## CAPITAL.

CITIES.	Number of estab- lish- ments report- ing.	Value of hired property.	Direct investment.				Stock in process and finished products on hand.	Cash, bills and accounts re- ceivable, and all sundries not elsewhere reported.	
			Value of plant.						
			Aggregate.	Land.	Buildings.	Machinery, tools, and implements.	Raw materials.		
Total .....	186,147	\$33,173,008	\$3,996,705,734	\$44,018,069	\$306,787,051	\$912,509,634	\$164,042,249	\$611,642,876	\$1,028,315,865
1 Akron, Ohio .....	350	721,312	14,237,429	1,099,575	1,688,907	2,624,503	1,019,865	1,558,153	6,246,426
2 Albany, N. Y. ....	1,305	3,589,739	17,270,705	1,446,925	2,716,830	3,981,078	2,343,913	2,277,851	4,554,108
3 Allegheny, Pa. ....	675	4,233,935	22,253,243	3,760,710	3,534,218	4,403,396	2,337,551	2,954,189	5,263,179
4 Allentown, Pa. ....	382	725,864	6,977,091	796,066	924,321	2,182,773	495,222	1,371,521	1,207,158
5 Altoona, Pa. ....	208	563,395	7,955,423	476,900	2,947,150	2,038,836	1,265,062	623,472	604,008
6 Atlanta, Ga. ....	410	976,274	9,508,962	1,554,157	1,421,876	2,609,721	1,015,996	1,016,667	1,891,145
7 Auburn, N. Y. ....	258	1,141,414	11,123,232	511,175	1,041,720	1,412,404	858,407	1,700,715	5,568,817
8 Augusta, Ga. ....	440	655,915	7,770,682	546,225	1,766,755	2,918,296	859,501	880,168	799,743
9 Baltimore, Md. ....	5,265	16,658,875	92,723,677	11,172,161	11,224,052	18,758,983	9,605,688	14,237,235	27,025,598
10 Bay city, Mich. ....	331	482,833	9,654,415	3,010,373	781,516	1,385,116	1,182,309	1,269,165	1,934,646
11 Binghamton, N. Y. ....	701	1,606,149	9,058,651	743,269	843,338	1,611,106	1,639,779	1,256,240	2,964,919
12 Birmingham, Ala. ....	283	885,920	4,533,478	879,650	586,007	1,636,322	351,786	349,824	749,889
13 Bloomington, Ill. ....	188	333,974	7,287,141	211,855	618,059	636,092	311,298	292,443	804,403
14 Boston, Mass. ....	7,942	55,800,301	118,198,539	9,381,608	12,148,629	25,763,722	11,812,088	22,063,319	34,035,113
15 Bridgeport, Conn. ....	559	2,004,940	19,786,572	1,647,251	1,968,776	3,717,973	1,919,922	3,427,082	7,105,568
16 Brockton, Mass. (b) .....	537	1,571,421	7,772,452	866,175	546,497	1,204,676	1,105,545	1,016,498	3,533,061
17 Brooklyn, N. Y. ....	10,588	31,877,420	161,730,500	24,296,639	22,680,125	39,483,204	16,118,381	21,365,301	37,766,850
18 Buffalo, N. Y. ....	2,565	10,526,219	70,707,145	10,852,693	11,294,286	14,557,184	7,061,320	9,470,887	17,470,825
19 Burlington, Iowa. ....	223	492,849	3,963,986	443,400	513,430	961,167	62,871	511,721	891,397
20 Cambridge, Mass. ....	1,232	3,936,373	20,331,588	1,614,491	2,346,951	3,310,972	2,171,058	4,797,973	6,090,137
21 Camden, N. J. ....	658	2,073,188	15,244,506	1,822,280	2,177,220	3,409,391	1,689,214	2,440,345	3,514,516
22 Canton, Ohio ....	420	470,150	11,387,406	752,132	1,365,150	1,116,936	861,919	1,360,518	5,130,804
23 Charleston, S. C. ....	566	996,537	7,345,459	1,065,591	1,822,760	1,941,105	681,966	711,605	1,122,425
24 Chattanooga, Tenn. ....	291	579,305	7,405,466	1,365,372	871,940	1,602,362	839,700	931,555	1,794,681
25 Chelsea, Mass. ....	347	1,045,968	7,028,356	583,253	691,444	1,570,182	934,028	1,366,540	1,882,907
26 Chester, Pa. ....	201	496,600	9,397,032	983,653	1,340,944	2,639,755	1,029,535	1,627,692	1,825,422
27 Chicago, Ill. ....	9,977	72,716,488	359,739,588	50,643,184	45,308,301	70,149,278	37,415,820	56,427,951	99,494,464
28 Cincinnati, Ohio (b) .....	7,832	31,936,526	104,483,021	10,302,728	12,469,389	15,289,272	12,084,099	22,802,795	31,534,639
29 Cleveland, Ohio. ....	307	8,217,164	69,732,761	6,962,989	7,822,511	12,288,205	5,971,571	9,915,966	19,871,272
30 Cohoes, N. Y. ....	212	1,626,764	21,275,137	15,082	2,777,427	4,727,464	1,243,994	1,116,940	1,255,230
31 Columbus, Ohio. ....	708	2,600,152	16,178,703	2,160,454	2,020,579	2,900,557	1,885,410	2,750,467	4,461,296
32 Council Bluffs, Iowa. ....	209	229,553	1,291,285	1,489,660	1,035,200	214,839	1,021,325	191,625	289,587
33 Covington, Ky. ....	1,308	1,711,012	6,887,380	820,450	849,950	1,883,655	883,927	1,006,569	1,772,431
34 Dallas, Tex. ....	312	991,410	5,250,118	614,284	550,147	1,641,113	608,824	767,352	1,068,198
35 Davenport, Iowa. ....	475	1,031,350	8,732,122	1,844,579	1,511,730	1,569,433	1,188,336	1,519,315	2,118,679
36 Dayton, Ohio. ....	937	1,784,839	13,469,951	1,358,272	1,879,370	2,900,344	1,885,801	2,089,465	3,656,711
37 Denver, Colo. ....	762	4,789,912	16,811,868	2,589,650	1,599,610	3,221,479	2,439,220	2,014,055	3,917,854
38 Des Moines, Iowa. ....	359	3,257,900	4,553,700	639,478	901,704	1,617,882	1,043,303	1,073,945	1,201,100
39 Detroit, Mich. ....	146	7,854,178	42,014,167	4,922,336	5,314,948	9,078,467	5,881,753	7,042,563	12,511,100
40 Dubuque, Iowa. ....	262	609,275	7,016,802	883,012	1,022,593	1,108,283	897,026	1,483,632	1,591,256
41 Duluth, Minn. ....	278	912,945	5,332,447	1,819,304	325,950	1,197,397	438,505	1,233,308	790,487
42 Elkhorn, N. J. ....	190	455,268	7,785,555	605,130	1,452,810	2,157,674	584,651	1,468,185	1,217,095
43 Elkins, W. Va. ....	309	949,380	6,889,180	561,973	828,120	1,610,400	921,359	963,853	1,177,177
44 Erie, Pa. ....	236	563,811	12,812,694	1,008,598	1,198,729	2,104,616	1,024,143	1,223,868	3,997,230
45 Evansville, Ind. ....	482	1,041,765	9,166,559	1,007,655	1,182,275	2,270,857	961,837	1,310,593	2,430,662
46 Fall River, Mass. ....	397	1,156,755	37,199,470	2,454,242	5,754,841	17,188,915	2,856,327	3,181,548	3,983,597
47 Fitchburg, Mass. ....	323	633,045	7,563,522	582,467	959,272	2,168,058	988,925	1,388,126	1,526,674
48 Fort Wayne, Ind. ....	235	719,061	6,999,600	609,430	904,679	1,051,739	1,762,459	756,785	1,808,512
49 Fort Worth, Tex. ....	316	518,484	3,194,032	519,292	334,731	713,140	318,982	699,015	597,872
50 Galveston, Tex. ....	190	651,510	5,122,612	1,469,670	762,864	1,341,944	479,506	379,103	693,925
51 Gloucester, Mass. ....	206	419,650	2,763,254	180,773	290,909	455,485	460,827	300,665	1,074,325
52 Grand Rapids, Mich. (b) .....	869	1,885,111	15,946,947	2,559,967	1,904,552	2,664,555	2,016,310	2,828,105	3,972,428
53 Harrisburg, Pa. ....	475	1,254,273	6,716,074	600,233	1,165,047	1,503,101	991,317	921,359	963,853
54 Hartford, Conn. ....	513	2,695,000	14,126,282	826,800	1,514,650	3,740,859	1,210,583	3,223,205	3,610,185
55 Haverhill, Mass. ....	734	3,220,880	8,084,272	149,750	188,584	1,261,660	1,113,158	1,355,810	3,515,910
56 Hoboken, N. J. ....	289	1,047,270	3,948,782	479,450	626,395	1,030,090	349,486	598,930	836,431
57 Holyoke, Mass. ....	493	1,445,172	24,411,939	1,997,659	4,200,975	5,782,337	2,897,481	3,171,279	6,362,208
58 Houston, Tex. ....	210	603,715	3,509,434	439,950	561,067	1,273,586	351,567	445,441	437,883
59 Indianapolis, Ind. ....	1,189	3,724,435	15,266,685	1,256,593	2,061,049	3,310,829	2,169,862	2,840,327	3,597,676
60 Jackson, Mich. ....	220	558,356	4,979,444	261,850	477,146	767,043	621,055	616,607	2,255,713
61 Jersey city, N. J. ....	726	4,772,898	18,165,094	1,993,123	2,400,475	3,782,240	2,192,867	2,452,403	5,403,981
62 Johnstown, Pa. ....	113	159,570	13,280,296	1,627,362	1,336,455	4,850,256	1,813,867	1,177,647	2,411,709
63 Joliet, Ill. ....	271	441,582	9,418,932	562,050	1,242,445	2,401,788	1,585,876	801,372	2,825,401
64 Kansas city, Kan. ....	234	367,865	11,629,703	1,629,900	2,332,905	1,362,734	307,706	4,619,713	1,377,145
65 Kansas city, Mo. ....	1,478	4,974,291	11,304,620	2,379,675	1,391,340	4,081,544	1,352,125	1,824,718	3,075,218

a Include internal revenue tax.

## CITIES HAVING A POPULATION OF 20,000 AND OVER.

5

A POPULATION OF 20,000 AND OVER: 1890.

## MISCELLANEOUS EXPENSES.

AVERAGE NUMBER OF EMPLOYÉS AND  
TOTAL WAGES.

Total.	Rent paid for tenancy.	Taxes. (a)	Insurance.	Repairs, or- dinary, of buildings and machinery.	Amount paid to contractors.	Interest paid on cash used in the business.	All sundries not else- where re- ported.	Average number.	Aggregates.		Officers, firm mem- bers, and clerks.
									Males above 16 years.		
									Number.	Wages.	
\$454,844,830	\$70,723,452	\$112,597,927	\$18,805,773	\$34,144,332	\$27,297,929	\$29,683,548	\$161,601,894	2,907,882	\$1,567,444,001	263,766	\$268,860,613
977,471	50,767	83,369	66,861	110,662	1,000	188,913	475,699	6,390	3,206,314	512	483,828
1,909,304	285,385	505,969	91,082	138,011	97,765	116,856	674,296	15,041	7,980,378	1,659	1,665,390
1,728,571	199,324	486,455	79,157	247,257	41,610	121,092	553,646	13,063	7,081,529	1,140	1,137,494
532,875	53,336	74,887	21,482	95,836	76,870	71,863	136,601	5,833	2,313,508	497	387,782
241,121	39,917	30,836	9,527	26,325	19,500	9,750	105,266	6,561	3,684,096	301	228,893
887,623	107,812	91,115	55,576	63,803	.....	81,601	587,716	8,684	3,809,955	685	584,590
1,339,705	92,031	57,795	25,056	66,452	2,400	192,687	903,284	6,166	2,625,365	381	377,498
526,539	64,344	143,615	43,175	40,947	.....	105,368	129,090	6,294	2,063,189	424	315,138
8,771,869	1,355,723	3,413,478	367,131	514,084	462,106	559,002	2,100,345	83,745	35,914,854	6,736	5,782,909
518,771	39,872	87,678	66,901	120,618	5,046	80,361	117,195	4,696	2,006,052	454	409,442
907,357	141,408	341,659	53,606	44,893	80,150	103,210	142,031	10,191	4,349,162	857	776,604
545,290	89,377	36,831	17,595	75,563	82,240	17,126	226,558	3,611	2,003,696	322	318,520
223,535	30,313	25,375	11,058	35,837	48,665	15,785	56,499	2,524	1,261,051	302	244,009
21,543,958	4,167,158	1,968,371	626,260	798,507	2,743,926	987,475	10,156,259	90,805	55,125,872	10,596	10,672,179
1,442,378	160,787	137,458	64,833	134,611	10,170	138,117	796,402	13,181	7,566,913	924	1,138,783
1,136,445	116,290	34,450	43,525	80,366	14,012	75,209	771,593	11,192	6,600,165	747	784,703
15,474,164	2,992,401	3,165,789	574,300	1,199,001	191,592	957,883	6,631,666	109,292	65,247,119	13,434	13,463,307
7,489,363	837,999	1,125,424	381,188	508,783	725,942	574,303	3,340,724	51,433	25,495,833	4,488	4,461,825
259,615	46,755	31,086	19,756	13,829	12,370	46,388	88,981	3,264	1,424,173	207	237,200
2,370,252	310,988	404,041	121,383	117,568	62,295	200,996	1,152,971	14,258	7,759,813	1,267	1,113,157
703,453	155,824	58,528	87,037	103,509	5,200	96,498	217,696	10,292	5,557,650	877	782,425
652,170	30,186	55,771	32,014	114,854	155,396	136,912	413,837	7,053	5,780,753	636	550,176
464,464	86,202	96,326	51,117	66,761	1,360	47,990	114,416	5,504	2,326,078	657	491,503
909,518	58,178	75,991	47,878	91,010	365,361	102,326	168,774	5,741	2,746,887	479	474,222
547,110	83,085	53,919	36,834	74,980	16,000	141,166	141,178	3,470	1,884,002	405	443,073
606,851	46,724	33,329	34,565	84,113	89,370	105,711	216,682	6,850	3,104,049	262	285,856
42,295,427	5,473,444	9,856,004	1,706,046	2,234,571	2,237,540	3,050,993	18,584,829	210,366	123,855,101	17,584	18,731,106
19,337,182	2,682,830	10,216,363	629,213	709,230	654,947	615,763	4,330,816	96,689	47,691,332	10,214	9,935,622
4,902,256	714,236	786,390	328,147	915,245	26,320	326,557	1,803,173	50,674	28,355,055	4,401	4,677,131
741,435	124,841	108,426	41,978	126,168	1,282	108,384	3,250,356	8,939	3,155,950	270	260,277
1,715,056	207,355	302,601	67,569	105,826	158,651	184,501	758,550	13,491	6,865,688	1,195	1,138,355
82,886	25,708	9,563	8,218	8,485	11,213	26,889	1,614	822,842	1,195	117,569	
1,026,579	155,971	328,285	22,415	68,621	216,840	16,130	226,353	1,692	4,220,619	1,354	1,204,049
50,237	102,517	62,717	38,728	49,809	43,700	49,728	247,028	4,082	2,529,639	473	470,924
736,201	87,139	110,924	49,345	58,011	149,395	58,076	267,371	5,136	2,214,002	627	553,120
1,459,655	159,912	297,477	58,552	111,005	62,014	93,798	675,997	12,047	5,600,719	1,278	1,065,654
1,340,868	497,373	265,378	86,470	132,347	3,000	81,010	278,126	10,618	8,377,320	1,246	1,660,666
442,162	112,230	34,198	26,008	29,888	3,300	38,288	201,300	4,068	2,400,535	466	330,839
5,947,307	631,230	1,773,256	227,119	301,273	345,294	292,834	2,077,477	321,178	18,600,239	3,414	3,255,564
564,377	84,216	116,057	53,000	53,365	300	63,329	224,210	1,657	2,133,880	433	404,642
412,496	90,589	43,933	35,862	23,352	147,927	33,165	37,608	3,752	2,098,693	388	330,631
371,214	37,051	94,719	32,225	82,329	4,900	11,374	108,616	6,361	3,727,672	272	365,802
538,070	73,931	64,165	31,542	41,499	27,237	53,194	24,6,302	5,171	2,004,606	664	546,436
18,157	45,949	92,648	51,057	73,265	8,100	11,000	636,927	3,824	3,824,535	534	501,779
804,871	98,359	216,168	71,542	73,946	99,500	108,337	137,973	7,435	3,197,923	592	521,303
2,063,945	88,231	476,325	106,638	482,477	.....	359,502	560,772	23,342	8,775,722	486	534,076
746,602	57,993	63,501	29,442	146,967	16,910	148,961	282,828	5,497	2,779,541	356	354,970
307,999	49,879	66,823	27,232	21,180	.....	45,398	97,537	6,011	2,676,316	338	282,298
286,452	57,833	67,384	17,503	21,209	17,600	24,014	80,809	2,743	1,947,148	327	301,600
405,270	69,206	45,524	42,176	54,359	15,435	48,243	133,929	1,932	1,241,299	241	272,049
156,668	38,769	17,463	16,676	22,657	100	22,408	38,600	1,719	864,546	138	106,685
1,299,458	176,363	160,591	106,217	115,150	28,137	191,711	511,289	13,282	6,510,749	1,185	1,132,469
428,757	114,007	45,352	21,016	61,747	.....	40,494	146,141	6,898	3,367,941	593	402,233
886,428	208,637	128,166	43,778	112,263	32,678	65,350	295,556	9,921	5,624,318	623	657,977
1,777,142	233,078	36,614	57,775	39,972	1,063,885	51,466	291,352	15,201	6,932,630	852	735,340
228,743	85,873	26,083	12,757	27,547	.....	4,692	71,791	3,347	2,264,236	348	352,511
1,683,226	138,661	177,701	102,445	878,283	81,250	354,582	450,304	13,129	6,197,923	741	832,539
313,114	60,374	18,471	36,312	55,447	.....	16,007	126,603	3,009	1,647,478	271	276,626
2,080,733	301,187	250,479	135,332	154,855	298,325	161,238	779,617	18,061	4,107,373	436	1,676,336
337,634	49,236	25,501	23,870	13,367	45,202	34,460	149,978	3,630	1,415,166	342	272,354
1,893,926	463,734	177,646	77,256	154,468	72,000	126,269	822,553	12,869	7,808,270	1,260	1,492,691
789,343	12,968	20,206	3,839	690,773	152,195	30,697	25,668	5,645	3,131,501	264	246,060
551,539	39,283	66,931	13,312	175,659	197,210	11,415	47,729	3,183	1,982,558	292	346,004
3,243,969	36,411	44,481	107,359	81,787	15,750	102,822	2,855,359	7,333	4,107,373	436	402,954
1,901,313	474,648	67,977	86,162	104,251	.....	90,148	1,078,127	14,757	9,448,696	1,942	1,883,705

b See Exhibit A, page 16.

## STATISTICS OF MANUFACTURES.

TABLE 2.—TOTALS FOR THE 165 CITIES HAVING A

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.

Officers, firm members,  
and clerks—Cont'd.

Operatives, skilled and unskilled.

Pieceworkers.

CITIES.	Females above 15 years.		Males above 16 years.		Females above 15 years.		Children.		Males above 16 years.	
	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.
Total .....	33,409	\$16,012,490	1,684,088	\$955,820,332	347,038	\$101,267,418	53,991	\$8,597,128	302,798	\$158,638,497
1 Akron, Ohio.....	75	29,181	4,126	2,002,837	515	110,566	8	879	941	528,308
2 Albany, N. Y.....	332	174,257	8,637	4,719,020	1,329	363,058	133	19,683	1,633	801,571
3 Allegheny, Pa.....	66	27,510	9,506	5,208,269	724	160,274	281	39,859	675	363,338
4 Allentown, Pa.....	43	14,844	3,262	1,392,911	307	56,023	336	40,451	586	262,508
5 Altoona, Pa.....	44	14,905	3,508	1,663,805	121	24,037	72	8,226	2,462	1,733,642
6 Atlanta, Ga.....	42	19,080	6,099	2,716,965	768	184,868	404	50,819	442	198,089
7 Auburn, N. Y.....	64	30,193	3,028	1,344,113	1,171	290,716	121	17,912	1,183	513,031
8 Augusta, Ga.....	156	58,110	3,298	1,157,000	1,315	305,738	523	63,360	247	100,419
9 Baltimore, Md.....	493	209,898	40,002	20,125,568	10,472	2,708,911	1,515	202,025	13,651	5,169,374
10 Bay city, Mich.....	39	19,951	3,533	1,382,917	257	35,365	60	7,392	282	152,374
11 Binghamton, N. Y.....	156	65,374	5,695	2,544,143	1,594	455,130	165	26,550	759	267,192
12 Birmingham, Ala.....	45	21,864	2,803	1,480,712	179	67,980	48	5,400	190	102,186
13 Bloomington, Ill.....	21	9,042	1,713	841,001	128	24,402	30	3,335	261	124,130
14 Boston, Mass.....	1,738	815,256	51,684	33,791,197	13,558	4,374,832	315	52,137	5,569	3,473,687
15 Bridgeport, Conn.....	91	47,027	6,951	4,307,056	599	499,499	132	27,200	2,170	1,106,534
16 Brookton, Mass. (a).....	128	69,138	4,146	2,599,569	891	379,646	75	13,193	3,708	2,152,611
17 Brooklyn, N. Y.....	1,654	766,452	63,892	40,575,543	12,520	3,750,308	1,257	206,385	9,666	4,920,317
18 Buffalo, N. Y.....	1,034	466,239	32,526	10,667,541	4,230	804,662	791	103,954	4,942	2,369,077
19 Burlington, Iowa.....	22	9,564	2,229	930,746	210	33,274	104	17,102	327	160,277
20 Cambridge, Mass.....	410	148,693	8,690	5,034,305	1,299	375,004	32	3,665	1,116	690,644
21 Camden, N. J.....	41	15,972	6,142	3,619,700	1,029	269,214	166	26,196	1,022	605,589
22 Canton, Ohio.....	57	21,936	4,239	2,153,938	1,465	141,510	18	3,269	1,280	733,118
23 Charleston, S. C.....	163	54,786	3,396	1,456,902	737	139,547	91	13,866	261	120,984
24 Chattanooga, Tenn.....	62	26,142	4,553	2,052,295	208	63,065	163	25,640	201	93,448
25 Chelsea, Mass.....	98	55,984	1,763	985,527	483	129,309	12	1,916	319	145,202
26 Chester, Pa.....	29	10,752	3,901	1,161,578	1,285	354,268	544	85,818	363	217,808
27 Chicago, Ill.....	2,149	1,141,568	145,537	85,455,529	17,960	5,621,284	2,364	426,270	18,783	10,786,799
28 Cincinnati, Ohio (a).....	2,308	1,027,199	49,821	27,251,563	10,744	2,768,008	1,291	215,730	13,742	4,942,058
29 Cleveland, Ohio.....	358	170,434	35,048	15,597,845	2,084	824,478	850	159,156	4,957	2,365,433
30 Cohoes, N. Y.....	28	13,750	3,629	1,497,232	1,847	505,150	670	108,532	334	143,769
31 Columbus, Ohio.....	173	74,234	8,408	4,214,004	696	246,498	152	23,783	1,823	984,371
32 Coon Rapids, Iowa.....	5	3,460	1,247	2,925,814	115	21,048	39	3,364	46	49,613
33 Covington, Ky.....	137	70,807	4,489	1,460,425	667	150,549	5	831	855	226,261
34 Dallas, Tex.....	55	31,346	2,514	1,612,585	394	100,753	191	31,582	377	246,160
35 Davenport, Iowa.....	48	20,887	2,773	1,218,796	429	86,972	88	11,233	522	239,774
36 Dayton, Ohio.....	155	67,682	7,251	3,664,433	1,102	242,820	159	25,629	1,316	600,442
37 Dickey, Conn.....	54	63,829	7,829	5,948,965	400	401,317	147	31,187	306	237,175
38 Des Moines, Iowa.....	49	10,922	2,766	1,045,500	444	116,447	57	15,764	110	54,915
39 Detroit, Mich.....	199	84,084	24,325	11,837,711	3,220	826,777	662	94,439	4,397	2,317,711
40 Dubuque, Iowa.....	26	13,363	3,416	1,470,830	164	38,815	69	8,129	272	130,989
41 Duluth, Minn.....	49	17,485	3,096	1,654,232	131	36,188	16	2,370	69	56,650
42 Elkhorn, N. J.....	21	10,822	5,418	3,065,259	104,264	167	52,214	158	83,073	
43 Elmira, N. Y.....	175	83,037	9,367	1,538,938	630	75,363	65	10,707	477	21,532
44 Erie, Pa.....	32	14,293	5,062	2,675,460	164	28,986	192	31,139	954	496,160
45 Evansville, Ind.....	28	11,828	4,450	2,095,765	774	136,828	363	44,743	773	370,816
46 Fall River, Mass.....	69	28,601	12,018	5,029,810	9,171	2,832,285	1,217	202,771	183	56,872
47 Fitchburg, Mass.....	62	27,763	3,310	1,760,871	1,177	359,702	204	35,720	298	206,817
48 Fort Wayne, Ind.....	29	12,464	4,006	1,803,098	216	48,703	25	2,239	1,037	449,438
49 Fort Worth, Tex.....	48	27,473	2,130	1,531,752	163	52,687	31	5,412	26	19,332
50 Galveston, Tex.....	12	7,466	1,221	714,657	208	65,345	71	9,955	124	85,166
51 Gloucester, Mass.....	18	6,290	867	513,076	222	53,212	—	—	292	127,484
52 Grand Rapids, Mich.....	228	98,663	9,427	1,747,363	421	116,513	48	8,320	70	28,042
53 Harrisburg, Pa.....	50	18,417	5,315	2,712,237	471	104,954	40	81,791	181	127,776
54 Hartford, Conn.....	87	37,113	6,212	3,894,794	986	332,671	40	4,714	170	53,872
55 Haverhill, Mass.....	211	99,716	3,554	2,154,457	888	260,396	15	4,045	6,731	2,503,528
56 Hoboken, N. J.....	17	12,997	2,430	1,747,363	421	116,513	48	8,320	70	28,042
57 Holyoke, Mass.....	93	40,449	6,659	3,573,916	3,588	1,052,916	443	81,791	181	127,776
58 Houston, Tex.....	27	17,224	2,242	1,183,554	121	36,878	77	21,680	264	108,756
59 Indianapolis, Ind.....	253	118,390	10,732	5,466,178	1,373	336,898	449	68,765	1,868	909,398
60 Jackson, Mich.....	30	14,153	1,967	824,750	128	32,386	64	6,755	524	158,062
61 Jersey city, N. J.....	197	71,697	8,839	5,295,413	1,121	333,856	317	47,715	733	459,839
62 Johnstown, Pa.....	12	5,842	5,210	2,841,163	40	10,317	89	16,609	17	8,350
63 Joliet, Ill.....	25	13,042	2,605	1,632,046	83	21,058	74	9,107	103	60,781
64 Kansas city, Kan.....	42	19,130	5,780	3,192,762	99	29,544	94	21,183	624	350,876
65 Kansas city, Mo.....	204	119,665	9,986	6,305,494	863	281,419	147	27,086	1,068	688,678

a See Exhibit A, page 16.

CITIES HAVING A POPULATION OF 20,000 AND OVER.

7

POPULATION OF 20,000 AND OVER: 1890—Continued.

AVERAGE NUMBER OF EMPLOYÉS  
AND TOTAL WAGES—con'td.

COST OF MATERIALS USED.

VALUE OF PRODUCTS.

Pieceworkers—Continued.

Females above 15 years.		Children.		Total.	Principal materials.	Fuel.	Rent of power and heat.	Mill supplies.	All other materials.	Total.	Principal products.	All other products, including receipts from cus- tom work and repairing.	
Number.	Wages.	Number.	Wages.										
215,523	\$37,021,772	7,264	\$1,225,751	\$3,363,177,034	\$3,087,806,429	\$67,847,148	\$1,213,812	\$13,351,545	\$189,958,099	\$6,278,338,476	\$5,875,137,819	\$403,200,657	
190	45,728	23	4,887	6,925,481	6,157,137	232,297	1,464	22,954	513,129	12,550,688	11,664,870	\$85,768	
1,067	267,249	1	150	11,773,211	10,706,954	251,181	11,338	21,275	725,540	25,531,486	22,721,287	2,210,110	
584	130,506	87	13,979	14,241,758	12,144,472	357,552	6,852	41,658	701,244	26,875,979	25,650,158	1,225,821	
766	156,116	2	2,873	5,102,911	4,355,904	433,520	3,483	36,252	273,562	8,876,565	8,668,077	208,488	
53	10,588	36	.....	6,133,222	5,913,961	150,908	359	28,515	39,449	8,055,545	8,055,545	2,251,461	
169	48,843	75	11,700	5,914,571	5,484,165	127,396	3,040	44,575	255,305	13,074,037	10,805,545	2,368,492	
218	54,901	2	1,800	3,783,971	3,418,112	56,135	5,825	10,535	21,289	9,636,745	8,193,485	1,157,353	
271	57,770	60	5,872	5,430,871	5,019,561	63,072	48,072	7,077	22,280	9,244,830	8,983,485	209,363	
10,353	1,683,414	313	30,735	73,000,000	69,934,183	1,123,605	41,316	3,078,318	141,723,599	133,091,401	6,532,382	9,143,926	
67	17,437	4	800	6,043,587	4,724,272	24,489	722	131,362	162,742	9,069,342	22,271,353	925,416	
927	205,566	38	5,603	7,659,007	7,164,608	99,650	7,707	23,262	372,780	15,040,152	14,303,235	736,917	
17	5,234	15	1,800	3,508,588	3,011,958	308,736	1,090	12,581	171,223	7,034,248	6,667,754	366,494	
40	12,480	29	2,647	2,025,940	1,886,813	48,331	289	35,021	55,495	4,081,001	3,616,928	1,033	
7,334	2,213,806	16	3,224	105,602,569	97,144,746	1,119,838	333,027	248,080	5,631,878	210,936,616	191,828,401	19,408,215	
1,047	528,096	59	12,728	10,428,987	9,257,174	244,855	181,214	117,245	761,491	22,271,353	8,844,148	15	
1,486	599,233	11	1,672	11,211,411	10,014,612	53,112	21,798	2,410	1,119,479	21,070,099	20,449,699	626,100	
6,707	1,529,486	162	26,326	156,060,710	140,643,790	2,372,554	127,595	412,614	7,655,957	269,244,147	217,114,256	22,129,891	
3,185	574,857	237	47,848	54,129,611	50,476,255	36,129	133,928	2,539,901	100,652,205	92,791,946	7,260,352	5,059,232	
54	14,390	11	1,625	3,099,200	2,912,250	45,968	895	18,605	130,482	5,413,138	5,036,906	19	
1,442	393,865	2	540	20,268,534	19,177,961	367,104	22,885	14,702	75,912	35,975,089	34,299,621	1,375,683	
1,078	215,248	6	145	11,816,151	10,987,419	245,640	5,051	26,350	551,691	21,145,637	18,526,149	2,619,488	
357	176,702	1	104	4,498,508	4,115,732	111,105	2,627	14,982	404,064	11,881,810	10,315,025	1,566,785	
195	48,120	4	370	4,753,396	4,522,400	83,050	4,056	35,985	107,905	9,005,421	7,978,865	1,026,553	
55	11,527	20	548	4,937,902	4,297,608	362,149	481	23,634	254,030	10,216,109	7,895,031	2,321,678	
396	121,991	4	1,000	4,681,291	4,044,919	99,657	3,411	37,697	501,607	8,158,207	7,227,246	25	
454	177,484	2	360	6,844,825	6,252,030	169,183	11,236	69,942	342,134	11,864,809	11,061,491	803,406	
5,801	1,738,784	188	1,641,499	372,321,668	6,282,127	312,950	47,961	30,105,321	664,367,923	641,931,735	22,636,188	27	
8,212	1,514,207	357	35,915	54,525,231	87,169,631	1,026,365	100,269	252,924	3,722,542	196,063,983	185,814,215	10,197,768	
2,674	661,076	302	59,952	65,645,649	57,726,312	3,001,040	47,378	219,069	4,651,559	113,210,115	108,398,127	4,841,888	
2,139	626,592	22	3,618	5,735,987	4,980,694	139,429	27,612	13,737	579,115	10,836,260	10,409,811	366,446	
696	184,591	38	7,719	11,183,710	10,323,916	418,239	9,982	66,398	365,175	22,887,586	20,802,149	2,085,437	
2	884	1	2,742,946	11,192,191	36,729	774	5,238	118,014	2,527,388	2,318,138	214,200	32	
95	18,197	.....	8,228,079	7,694,591	135,886	710	7,275	389,617	15,999,575	12,162,561	3,837,014	33	
78	24,289	.....	4,354,769	4,174,906	92,719	6,474	15,538	65,134	9,054,766	8,799,722	25,044,34	34	
534	79,085	115	4,635	6,098,349	5,602,397	91,735	3,160	22,430	37,577	10,357,232	9,492,559	864,640	35
754	203,247	2	312	11,636,149	10,537,100	157,343	22,449	53,168	926,180	22,446,572	21,160,443	1,286,129	
98	35,400	1	12,246,519	10,297,592	320,143	8,337	49,363	540,614	29,230,747	27,847,541	1,393,201	37	
43	13,464	.....	4,408,377	4,160,599	55,960	9,039	12,734	169,145	7,931,272	7,650,108	281,166	38	
1,910	411,106	21	2,624	31,050,058	38,263,070	960,021	41,789	174,104	1,921,027	77,331,546	75,531,717	1,769,529	
277	67,163	.....	5,984,431	5,747,911	87,273	3,489	25,676	120,082	9,894,860	9,131,350	763,310	40	
3	1,137	.....	5,435,654	5,187,337	27,784	1,283	11,562	207,488	8,811,723	8,650,204	161,519	41	
163	45,635	10	1,000	5,411,625	4,955,639	147,054	828	16,603	81,572	10,480,364	9,967,108	52,256	42
269	65,539	14	5,502	4,593,241	4,243,735	191,207	1,077	18,192	139,390	8,844,936	8,460,167	384,769	43
28	5,378	63	10,643	6,145,680	5,610,696	150,549	3,775	30,254	350,406	12,765,768	12,321,997	443,771	44
442	105,230	13	1,125	6,875,575	6,445,439	89,571	330	44,053	296,728	12,099,334	12,477,211	322,234	45
339	92,230	9	1,068	17,685,671	16,228,388	682,099	3,245	404,292	367,187	32,518,381	31,801,769	717,512	46
99	33,725	1	1,000	5,614,165	5,630,947	185,151	5,745	77,566	195,756	11,225,036	10,145,534	1,079,502	47
321	75,534	19	2,542	3,685,583	3,670,689	91,398	2,550	9,943	124,005	9,301,946	9,000,261	301,683	48
18	8,890	.....	3,435,446	3,118,623	75,393	896	5,057	231,333	6,826,083	5,957,551	868,582	49	
50	8,000	5	1,040	3,235,084	2,925,697	67,354	220	10,092	246,728	5,724,545	5,225,575	198,967	50
180	57,289	2	520	3,220,601	2,980,530	47,888	1,455	4,134	186,594	4,851,405	4,570,031	281,374	51
301	74,142	12	1,870	9,391,615	8,249,851	129,178	22,177	63,724	925,687	12,181,184	11,745,240	2,182,717	52
318	71,494	1	1,000	5,432,303	4,382,302	40,768	3,025	17,750	17,750	10,538,444	10,351,368	2,187,076	53
212	52,395	1	156	7,944,936	7,581,670	122,700	22,778	65,989	161,793	17,164,318	16,584,729	579,589	54
2,740	1,024,248	210	145,000	15,353,969	12,720,319	52,814	59,141	2,653	804,542	25,394,530	24,324,199	1,070,355	55
13	4,400	.....	3,585,921	3,220,814	41,754	2,870	7,795	81,866	7,151,391	6,334,996	816,395	56	
1,425	486,936	9	1,600	13,574,783	12,111,703	346,467	108,887	147,766	26,000,315	21,415,365	15,452,240	2,187,076	57
16	8,208	6	2,292	3,638,593	3,250,593	73,848	2,523	5,823	5,823,443	4,667,688	165,253	58	
1,498	221,022	107	6,755	17,511,116	15,572,340	19,093	21,588	58,663	1,096,433	36,426,974	34,371,311	2,079,663	59
575	166,714	.....	2,762,640	2,551,980	95,235	11,321	3,536	120,544	5,375,347	4,466,146	910,199	60	
400	106,683	2	376	23,206,834	22,096,462	27,767	14,279	81,559	734,767	37,376,322	34,323,755	3,052,567	61
13	3,130	.....	13,157,331	11,884,070	1,002,987	340	466	249,468	18,122,989	18,193,771	17,220,213	62	
1	520	.....	8,884,684	7,416,564	1,080,472	5,823	4,213	329,612	12,782,933	11,956,478	776,455	63	
248	72,124	16	800	34,236,637	33,621,679	202,082	1,140	9,710	400,026	44,071,389	43,495,391	583,582	64
545	143,124	2	525	16,361,181	15,394,703	322,985	16,599	27,510	609,385	31,936,366	29,590,683	8,409,683	65

## STATISTICS OF MANUFACTURES.

TABLE 2.—TOTALS FOR THE 165 CITIES HAVING A

CITIES.	Number of establishments reporting.	Value of hired property.	Direct investment.							
			Value of plant.			Live assets.				
			Aggregate.		Land.	Buildings.	Machinery, tools, and implements.	Raw materials.	Stock in process and finished products on hand.	
66	Kingston, N. Y.	198	\$262,955	\$3,251,835	\$489,935	\$518,180	\$747,355	\$697,533	\$265,440	\$533,392
67	Knoxville, Tenn.	205	633,468	3,045,661	542,850	366,375	704,858	381,882	368,490	681,206
68	Lacrosse, Wis.	200	250,050	10,039,872	2,386,648	875,800	1,769,987	1,814,121	1,422,515	1,770,771
69	Lancaster, Pa.	559	1,097,170	7,691,314	633,285	1,035,810	1,822,828	1,039,456	1,092,151	2,017,141
70	Lawrence, Mass.	583	1,508,786	29,262,906	2,166,464	4,423,714	7,416,557	4,092,776	5,353,282	2,261,261
71	Lewiston, Me. (b)	214	489,511	8,324,231	263,428	1,702,500	2,902,812	945,080	874,675	1,635,736
72	Lexington, Ky.	183	441,325	1,619,880	197,175	231,740	436,210	220,031	160,130	374,594
73	Lincoln, Neb.	621	611,215	2,360,454	251,762	223,340	641,316	351,694	261,360	620,790
74	Lincoln, R. I.	149	250,975	7,677,864	481,733	1,112,316	3,179,532	879,315	1,468,415	555,553
75	Little Rock, Ark.	124	412,631	2,265,324	233,747	291,750	863,073	289,137	292,351	289,366
76	Long Island city, N. Y.	325	1,038,062	12,823,594	1,889,552	1,460,647	3,415,035	1,297,221	1,913,871	2,847,268
77	Los Angeles, Cal.	750	1,919,240	6,811,488	841,917	683,912	2,131,326	769,101	1,009,581	1,375,619
78	Louisville, Ky.	1,700	5,044,559	36,086,958	3,668,345	5,183,958	6,468,718	4,662,636	6,365,377	9,737,951
79	Lowell, Mass.	855	3,264,712	41,911,708	3,370,589	2,263,721	10,203,107	6,402,324	5,519,603	9,182,162
80	Lynn, Mass.	1,369	5,324,340	17,919,025	492,222	1,915,438	3,071,637	2,256,058	3,203,200	7,941,430
81	Macon, Ga.	203	499,000	3,988,900	481,000	561,725	1,327,209	539,004	360,390	719,572
82	Malden, Mass.	295	430,060	7,600,124	310,599	744,912	955,643	1,109,530	1,481,118	3,048,322
83	Manchester, N. H. (b)	386	1,946,028	22,424,968	1,769,082	2,283,805	6,557,561	3,139,496	3,633,639	5,041,283
84	McKeesport, Pa.	118	166,893	10,979,812	631,020	696,620	2,915,279	1,207,096	1,915,375	3,614,422
85	Memphis, Tenn.	345	1,359,731	9,357,821	1,416,018	1,541,920	2,755,350	1,019,641	1,089,756	1,355,120
86	Meriden, Conn.	238	822,535	13,712,146	607,383	1,419,045	3,079,204	922,539	3,836,225	3,837,750
87	Milwaukee, Wis.	2,879	8,374,507	69,145,814	6,722,768	8,491,326	12,477,274	8,639,845	11,577,457	20,356,599
88	Minneapolis, Minn.	2,723	7,525,830	42,613,764	6,312,162	4,110,908	8,404,173	8,493,722	5,901,683	9,412,216
89	Mobile, Ala.	261	686,885	2,236,318	229,300	300,825	773,709	242,640	233,378	456,466
90	Montgomery, Ala.	138	386,750	1,684,271	294,325	252,875	546,304	132,160	179,392	279,215
91	Muskegon, Mich.	301	364,343	9,863,819	2,758,974	528,291	1,563,998	1,713,000	1,256,467	2,042,989
92	Nashville, Tenn.	420	1,686,646	9,904,255	862,677	1,514,914	3,139,622	825,427	1,661,889	1,895,766
93	New Albany, Ind.	298	250,310	5,312,071	393,851	804,952	1,823,561	632,999	933,292	753,456
94	Newark, N. J.	2,499	10,123,030	62,552,752	5,841,050	9,451,215	13,320,325	6,615,971	11,116,200	15,877,901
95	New Bedford, Mass.	413	916,284	20,182,683	908,130	3,610,285	7,588,598	2,678,072	2,542,660	2,774,092
96	Newburg, N. Y.	287	1,079,360	5,777,655	567,846	1,019,055	1,669,741	748,810	758,870	1,008,463
97	New Haven, Conn.	1,129	3,912,025	19,592,384	1,861,965	2,297,388	4,516,260	2,461,569	3,681,377	4,773,355
98	New Orleans, La. (b)	1,961	6,832,001	26,319,277	3,563,558	7,666,675	8,432,154	2,815,026	3,120,920	4,821,940
99	Newport, Ky.	1,007	1,026,645	3,471,388	485,233	559,500	853,697	412,228	490,469	670,269
100	Newton, Mass.	193	314,077	4,393,807	284,125	543,539	1,037,612	470,561	592,240	1,105,731
101	New York, N. Y.	25,463	214,827,804	426,118,372	40,460,256	35,376,400	105,880,680	55,249,980	74,005,964	115,364,983
102	Norfolk, Va.	371	1,023,620	3,417,454	530,778	3,035,985	889,985	384,415	383,456	728,234
103	Oakland, Cal.	342	956,385	6,629,488	1,130,625	329,731	2,167,388	914,636	648,845	832,842
104	Omaha, Neb.	675	2,912,890	18,319,594	2,787,575	3,803,950	3,316,038	2,511,051	1,874,376	4,026,601
105	Oshkosh, Wis.	423	488,890	6,461,812	679,831	732,959	1,153,571	701,313	1,687,847	1,506,285
106	Owego, N. Y.	249	696,202	6,254,200	406,008	1,146,385	1,286,140	758,395	1,241,276	1,416,056
107	Paterson, N. J.	599	3,634,255	27,603,549	1,380,326	1,016,068	7,122,260	2,770,388	5,728,947	4,447,719
108	Pawtucket, R. I.	1,330	1,330,255	16,638,984	1,048,815	2,120,555	6,126,730	1,605,890	2,920,412	2,848,483
109	Pecoria, Ill. (b)	556	1,387,850	15,085,622	1,308,474	2,704,078	6,177,575	1,288,241	1,345,678	2,051,652
110	Petersburg, Va.	271	374,965	3,911,240	205,950	590,200	1,201,160	580,872	580,463	748,595
111	Philadelphia, Pa. (b)	18,161	61,144,077	375,219,715	38,679,356	47,296,048	80,953,236	41,066,646	65,549,951	101,704,478
112	Pittston, Pa.	102	233,053	1,278,792	191,220	93,685	485,867	131,415	102,688	273,887
113	Portland, Me.	662	1,661,270	6,887,557	386,610	560,682	1,491,260	1,035,283	31,211,381	54,144,449
114	Portland, Ore.	569	3,151,200	16,863,568	4,764,749	2,364,785	2,701,478	1,727,606	2,108,504	2,797,247
115	Poughkeepsie, N. Y.	303	1,085,623	4,850,550	582,803	1,119,128	3,577,728	822,181	845,227	845,227
116	Providence, R. I. (b)	1,934	8,601,799	61,133,598	4,489,618	8,004,643	16,487,572	6,298,568	11,065,221	14,787,976
117	Pueblo, Colo.	102	233,053	1,278,792	191,220	93,685	485,867	131,415	102,688	273,887
118	Quincy, Ill.	394	1,322,880	6,551,810	603,750	1,118,684	1,245,439	961,854	915,926	1,710,168
119	Racine, Wis.	190	287,206	11,533,207	716,208	1,110,211	1,442,886	1,583,713	1,583,375	5,123,828
120	Reading, Pa.	355	1,355,858	14,084,374	1,445,178	2,723,603	3,405,942	1,645,157	2,183,770	2,724,024
121	Richmond, Va.	965	2,723,450	16,785,242	1,290,220	1,597,629	3,750,853	2,851,846	2,609,417	4,685,267
122	Rochester, N. Y. (b)	1,892	7,397,018	46,301,058	4,125,334	6,214,087	7,694,512	5,768,366	8,352,736	14,151,217
123	Rockford, Ill.	242	855,522	7,715,068	591,292	921,164	1,583,344	932,700	1,410,588	2,275,921
124	Sacramento, Cal.	302	762,025	5,654,782	598,600	798,543	1,200,648	414,781	2,018,125	3,245,085
125	Seguin, Tex.	345	722,747	12,406,823	2,794,587	1,433,334	2,008,113	1,176,352	2,095,083	2,900,884
126	St. Joseph, Mo.	276	2,127,190	5,230,697	658,245	659,693	1,189,795	673,012	933,489	1,116,283
127	St. Louis, Mo. (b)	6,148	29,097,245	111,872,386	14,834,325	18,754,990	25,798,268	16,696,610	23,608,087	42,185,106
128	St. Paul, Minn.	1,412	6,464,339	22,501,211	2,871,430	1,599,494	5,280,553	2,865,859	3,700,848	6,183,027
129	Salem, Mass.	513	752,613	6,250,164	252,087	798,553	2,056,464	878,493	747,170	1,316,397
130	Salt Lake city, Utah	175	802,361	3,354,055	485,550	402,525	715,017	676,736	306,450	769,737

a Include internal revenue tax.

## CITIES HAVING A POPULATION OF 20,000 AND OVER.

9

POPULATION OF 20,000 AND OVER: 1890—Continued.

## MISCELLANEOUS EXPENSES.

 AVERAGE NUMBER OF EMPLOYÉS AND  
TOTAL WAGES.

Total.	Rent paid for tenancy.	Taxes. (a)	Insurance.	Repairs, or- dinary, of buildings and machinery.	Amount paid to contractors.	Interest paid on cash used in the business.	All sundries not else- where re- ported.	Aggregates.		Officers, firm mem- bers, and clerks.	
								Average number.	Total wages.	Males above 16 years.	Number.
\$323,553	\$26,338	\$141,921	\$11,932	\$31,162	\$1,320	\$6,812	\$104,068	2,430	\$1,106,678	172	\$167,226
261,707	50,419	38,793	22,264	19,454	6,750	24,537	99,490	3,113	1,662,501	341	296,875
703,625	24,108	159,935	60,895	72,841	10,000	111,102	264,744	4,127	1,657,725	274	265,195
691,291	106,240	238,206	47,169	42,679	550	112,891	148,536	8,179	2,710,262	707	446,552
1,553,366	121,575	245,419	36,074	448,875	14,656	511,525	530,242	16,276	6,723,383	532	552,003
635,894	40,159	102,077	25,246	177,676	.....	130,160	160,576	7,373	2,686,189	255	245,641
121,915	38,594	18,937	11,936	9,021	.....	13,592	32,835	1,545	816,692	227	246,431
269,712	60,443	10,593	14,149	12,263	27,450	17,861	126,983	1,921	1,161,746	253	248,343
385,222	17,054	44,535	22,388	43,895	.....	24,377	235,975	4,921	1,959,665	130	124,391
254,227	39,985	16,189	30,497	33,057	14,400	17,967	102,132	1,534	830,857	186	182,715
496,023	80,939	48,857	37,330	61,865	14,139	60,101	192,792	4,691	3,066,132	419	498,686
680,897	196,726	50,421	36,340	53,319	144,572	83,206	116,313	4,957	3,468,608	881	995,724
6,250,230	437,522	2,602,732	232,478	297,074	179,554	388,681	2,112,189	27,198	12,372,871	2,684	2,368,448
4,150,844	256,266	400,346	131,677	775,508	300	490,214	2,096,533	29,155	11,243,392	1,012	1,048,199
2,045,531	126,713	78,604	105,258	116,381	430,874	217,518	670,183	22,456	12,777,174	1,690	1,536,993
219,988	40,641	44,243	30,588	30,629	.....	22,857	51,060	3,417	1,242,962	232	175,941
484,174	31,456	64,172	39,391	40,342	.....	53,158	269,655	4,769	2,384,177	298	241,732
1,072,875	121,991	211,164	68,694	183,625	22,300	244,559	220,542	15,351	5,950,234	430	426,887
737,562	15,010	115,746	12,961	156,340	29,739	122,315	285,451	6,291	3,436,538	203	245,685
813,951	181,529	121,974	93,714	118,560	2,800	81,899	213,484	6,116	3,158,675	599	605,818
1,460,571	62,305	97,627	34,312	49,110	151,841	93,002	969,371	7,670	4,202,602	328	121,716
8,285,410	661,972	2,783,249	372,408	789,829	88,828	443,787	1,341,337	43,423	20,646,717	3,916	3,636,297
3,682,928	618,416	340,527	397,351	424,784	444,776	581,244	875,830	27,792	15,254,175	3,300	3,202,318
226,987	51,503	30,235	20,998	47,670	.....	7,086	69,495	3,013	1,169,353	268	210,582
140,829	30,940	19,597	20,079	23,184	4,000	19,507	23,522	1,864	787,259	170	148,674
475,301	32,034	140,970	55,317	80,660	.....	61,345	105,056	4,264	1,915,989	346	292,605
831,619	123,111	154,002	38,920	50,899	6,400	87,830	159,599	8,122	3,728,656	173	515,932
505,026	25,115	55,656	29,577	125,426	15,480	110,625	224,147	4,506	2,047,831	283	236,666
6,112,239	903,437	1,372,496	256,882	506,912	526,440	446,357	2,009,715	46,848	26,857,170	3,899	4,613,988
980,306	72,133	192,028	60,221	80,900	100	168,724	406,200	11,422	4,985,016	542	576,297
472,773	66,466	56,853	26,568	39,934	20,605	97,721	164,628	4,516	2,089,799	397	337,517
476,245	330,608	333,171	100,408	118,447	809,930	172,012	831,649	17,864	10,096,820	1,767	1,822,719
3,293,072	592,757	775,029	260,111	374,183	1,800	98,177	1,204,470	25,201	10,329,414	2,664	2,919,968
533,104	87,477	70,535	15,041	11,111	21,175	1,005	4,848	2,126,639	756	579,773	
243,663	29,173	24,724	50,423	21,271	61,721	53,301	2,624	1,408,275	189	213,506	
59,991,710	19,134,359	8,112,681	1,890,079	2,913,924	3,900,208	1,769,399	22,270,860	354,291	230,102,167	40,705	49,177,370
265,675	92,660	25,845	22,108	30,192	174,421	19,558	75,315	2,948	1,388,195	493	355,420
438,014	91,369	37,056	24,421	65,563	175	37,118	158,363	4,186	3,040,007	482	487,099
3,673,016	271,534	2,604,473	60,867	207,350	5,100	237,120	397,332	9,414	6,113,294	1,666	1,183,158
526,149	78,614	81,181	51,769	51,769	.....	74,712	196,865	3,383	2,019,026	378	280,585
684,999	54,842	58,255	40,882	68,612	.....	111,578	350,800	3,415	1,503,643	402	386,254
2,143,313	309,174	370,134	104,395	269,545	7,070	218,821	864,174	24,232	11,578,082	958	1,106,560
1,051,697	92,040	89,299	48,685	128,144	1,000	113,970	578,564	9,508	4,079,579	489	481,991
247,873	135,437	23,583,742	131,443	121,288	17,125	61,584	469,708	7,706	4,344,012	755	749,304
834,420	33,360	56,251	41,500	31,288	1,600	43,473	96,948	5,922	1,367,414	362	220,157
39,615,476	6,182,238	3,853,280	1,527,602	8,894,127	4,901,827	2,154,514	18,101,888	260,264	135,917,021	23,378	21,641,094
7,561,199	129,368	1,639,349	361,251	1,640,954	164,767	670,618	2,354,382	56,438	33,898,152	3,284	3,926,982
585,149	165,035	48,519	42,661	86,596	28,250	33,615	180,473	6,260	3,160,132	827	710,510
1,220,577	343,713	148,553	76,958	100,900	163,600	94,795	292,098	9,731	7,592,920	1,006	1,318,997
311,022	63,837	46,151	22,941	33,091	36,000	22,783	86,219	3,772	1,837,056	414	329,935
5,082,048	694,542	370,209	214,479	566,746	92,739	844,495	2,278,838	42,124	20,793,399	2,633	2,886,228
92,792	25,627	10,954	5,027	10,171	200	13,145	27,665	1,071	769,346	118	129,609
648,086	101,465	240,303	44,677	47,137	.....	45,677	168,827	5,110	2,429,634	503	430,432
662,448	28,724	60,105	33,062	31,100	51,700	99,446	358,311	4,872	2,418,498	383	394,988
1,012,366	96,876	218,991	50,067	187,038	.....	81,416	407,979	12,966	5,461,293	722	665,563
3,290,170	232,936	1,576,474	115,020	170,724	70,172	166,480	958,364	18,512	7,192,646	1,500	1,393,138
5,613,852	592,082	984,297	177,271	258,913	1,215,007	284,274	2,102,008	32,720	16,819,666	3,330	3,476,545
549,317	64,167	83,486	35,164	58,485	10,409	91,765	255,888	5,222	2,474,703	327	296,444
439,227	83,093	66,758	29,888	41,609	47,973	30,157	139,749	4,510	2,967,954	292	294,466
667,399	65,651	134,665	97,214	95,582	7,198	130,830	133,259	5,716	2,653,135	386	370,768
496,472	91,935	70,484	33,132	39,107	.....	31,549	230,265	5,026	2,351,691	425	370,387
17,734,350	2,270,881	7,382,129	806,336	1,323,261	.....	810,333	5,051,410	94,051	53,394,630	10,090	11,114,630
1,740,518	481,512	226,573	95,777	58,117	34,615	120,094	72,800	18,558	10,373,396	2,028	1,863,110
424,772	72,929	52,942	32,363	92,031	11,940	74,016	87,651	5,798	2,446,076	575	436,065
291,255	87,466	40,539	18,920	14,199	29,500	24,711	71,920	2,287	1,499,412	279	285,860

b See Exhibit A, page 16.

## STATISTICS OF MANUFACTURES.

TABLE 2.—TOTALS FOR THE 165 CITIES HAVING A

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.

CITIES.	Officers, firm members, and clerks—Cont'd.		Operatives, skilled and unskilled.				Pieceworkers.	
	Females above 15 years.		Males above 16 years.		Females above 15 years.		Children.	
	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.
66 Kingston, N. Y.	20	\$3,774	1,629	\$703,499	72	\$16,513	33	\$6,714
67 Knoxville, Tenn.	23	10,060	2,315	1,187,212	157	34,955	46	6,249
68 Lacrosse, Wis.	9	5,168	3,295	1,272,487	226	43,631	72	11,524
69 Lancaster, Pa.	142	43,793	4,240	1,536,198	1,445	319,503	504	58,157
70 Lawrence, Mass.	176	79,326	8,292	3,854,402	1,718,045	471	93,730	543
71 Lewiston, Me. (a)	42	21,641	3,423	1,418,534	2,668	682,682	179	30,256
72 Lexington, Ky.	39	90,235	803	497,540	220	44,494	19	1,422
73 Lincoln, Ky. (a)	28	15,400	1,330	781,315	82	29,717	78	13,986
74 Lincoln, R. I.	40	18,392	2,356	1,108,705	1,802	460,213	417	66,441
75 Little Rock, Ark.	15	12,799	1,095	545,463	67	20,790	25	3,476
76 Long Island city, N. Y.	29	15,039	3,715	2,384,768	105	28,082	57	12,305
77 Louisville, Ky.	204	129,750	2,721	1,882,824	418	141,002	45	8,121
78 Lyons, Ky. (a)	355	159,955	14,363	6,631,462	2,630	651,236	928	129,625
79 Lowell, Mass.	365	150,735	13,378	6,031,155	10,136	2,762,903	579	94,764
80 Lynn, Mass.	444	207,415	7,692	4,802,088	1,239	477,161	72	13,568
81 Macon, Ga.	28	9,980	2,398	923,290	392	84,536	210	18,154
82 Malden, Mass.	53	24,025	2,202	1,225,826	429	105,514	53	5,581
83 Manchester, N. H. (a)	38	17,712	7,021	3,060,500	7,073	2,166,147	219	36,560
84 McKeesport, Pa.	11	3,266	5,567	3,017,311	92	24,410	151	24,362
85 Memphis, Tenn.	22	10,593	4,643	2,215,705	219	56,993	90	17,636
86 Meriden, Conn.	41	16,902	4,970	2,860,277	1,174	350,061	9	1,050
87 Milwaukee, Wis.	657	273,159	26,624	13,446,747	2,961	636,286	654	84,125
88 Minneapolis, Minn.	789	377,409	19,439	10,071,527	1,782	481,724	205	34,683
89 Mobile, Ala.	26	8,361	2,166	809,567	80	17,074	75	7,554
90 Montgomery, Ala.	7	4,102	1,461	560,168	98	29,306	47	4,911
91 Muskegon, Mich.	35	15,030	3,365	1,446,458	107	22,978	72	6,624
92 Nashville, Tenn.	74	25,544	5,255	2,492,052	819	199,850	248	32,341
93 New Albany, Ind.	58	26,394	2,899	1,348,324	292	61,408	131	14,818
94 Newark, N. J.	230	105,648	24,429	14,890,813	5,194	1,581,067	672	100,815
95 New Bedford, Mass.	68	30,014	6,298	2,944,536	3,480	1,016,003	370	55,096
96 Newburg, N. Y.	23	10,802	2,021	1,108,209	402	101,645	139	21,826
97 New Haven, Conn.	191	88,215	9,338	5,523,434	1,365	396,410	30	3,957
98 New Orleans, La. (a)	215	110,439	10,541	5,207,624	2,996	576,835	402	49,701
99 Newport, Ky.	316	154,737	2,300	1,232,859	681	159,263	21	3,333
100 Newton, Mass.	45	25,359	1,659	969,751	544	193,932	61	8,003
101 New York, N. Y. (a)	4,352	2,515,588	169,407	119,000,051	56,217	19,066,902	1,718	279,122
102 Norfolk, Va.	64	18,385	1,713	825,300	256	50,352	28	2,482
103 Oakland, Cal.	58	33,974	2,868	2,181,986	274	107,465	203	30,001
104 Omaha, Neb.	125	68,554	6,911	4,410,863	709	215,376	251	40,890
105 Oshkosh, Wis.	88	25,146	3,826	1,472,128	368	79,603	120	18,159
106 Oswego, N. Y.	46	15,037	1,869	837,566	275	58,190	73	4,456
107 Paterson, N. J.	76	31,797	10,766	6,069,067	5,851	1,733,476	805	127,461
108 Pawtucket, R. I.	100	45,059	4,743	2,336,624	2,501	701,615	435	72,777
109 Peoria, Ill. (a)	105	56,492	4,897	2,854,970	673	155,159	135	22,221
110 Petersburgh, Va.	55	18,706	2,746	814,471	1,503	204,033	438	37,453
111 Philadelphia, Pa. (a)	2,239	960,754	141,291	80,288,766	34,036	120,499	8,607	1,384,219
112 Pittsburgh, Pa.	191	81,684	42,654	29,375,548	2,034	535,240	1,784	347,315
113 Portland, Me.	95	35,729	3,643	1,819,313	613	153,320	17	1,981
114 Portland, Ore.	72	53,586	7,740	5,785,284	476	192,549	96	18,902
115 Poughkeepsie, N. Y.	30	41,925	2,065	1,068,030	339	95,088	84	10,666
116 Providence, R. I. (a)	504	221,281	24,120	12,997,402	8,616	2,460,430	1,865	300,826
117 Pueblo, Colo.	16	9,978	775	546,653	71	29,928	28	5,254
118 Quincy, Ill.	30	12,994	3,296	1,529,835	423	95,579	233	30,537
119 Racine, Wis.	29	13,646	2,959	1,440,334	317	77,505	110	16,964
120 Reading, Pa.	33	17,260	7,893	3,351,329	951	203,292	614	73,077
121 Richmond, Va.	121	45,645	10,227	4,308,308	1,491	252,861	329	36,000
122 Rochester, N. Y. (a)	428	198,084	17,449	9,584,053	3,800	1,020,783	773	109,603
123 Rockford, Ill.	29	12,163	3,553	1,785,751	767	202,467	79	14,223
124 Sacramento, Cal.	32	20,619	3,183	2,362,697	236	91,292	24	5,327
125 Saginaw, Mich.	25	10,744	4,504	2,010,455	208	56,542	122	14,349
126 St. Joseph, Mo.	22	11,073	2,543	1,330,224	478	127,650	61	8,701
127 St. Louis, Mo. (a)	1,050	495,296	50,515	93,341,257	8,301	2,455,739	2,260	329,319
128 St. Paul, Minn.	251	115,706	12,721	6,845,731	1,789	273,930	170	28,635
129 Salem, Mass.	96	36,045	2,578	1,210,442	923	233,397	18	2,269
130 Salt Lake city, Utah	22	8,098	1,545	1,043,991	254	72,461	85	13,462

a See Exhibit A, page 16.

## CITIES HAVING A POPULATION OF 20,000 AND OVER.

11

## POPULATION OF 20,000 AND OVER: 1890—Continued.

 AVERAGE NUMBER OF EMPLOYÉS  
AND TOTAL WAGES—CONT'D.

## COST OF MATERIALS USED.

## VALUE OF PRODUCTS.

## Pieceworkers—Continued.

Females above 15 years.		Children.		COST OF MATERIALS USED.						VALUE OF PRODUCTS.					
Number.	Wages.	Numer- ber.	Wages.	Total.	Principal materials.	Fuel.	Rent of power and heat.	Mill supplies.	All other materials.	Total.	Principal products.	Principal products.	All other products, including receipts from cus- tom work and repairing.		
131	\$45,661	2	\$416	\$1,730,637	\$1,512,239	\$93,526	\$224	\$10,430	\$114,218	\$1,009,574	\$3,807,985	\$201,589	66		
30	6,716	1	156	2,464,914	2,265,455	81,834	660	2,885	111,080	5,029,116	4,191,204	283,912	67		
156	25,106	4	256	5,971,572	5,610,173	37,771	2,965	85,340	235,323	9,157,501	8,830,547	326,954	68		
587	117,282	11	1,725	6,306,495	5,949,349	128,804	900	46,600	186,841	11,361,535	11,117,418	241,117	69		
738	257,153	1	200	15,145,851	13,507,998	489,384	60,402	155,313	932,750	26,350,725	21,893,484	4,657,241	70		
608	187,582	3	360	4,828,710	4,418,370	104,866	46,308	130,100	129,066	9,073,856	8,559,313	514,543	71		
15	3,684			1,256,739	1,087,163	40,721	414	1,380	127,061	2,708,445	2,448,780	55,665	72		
19	5,310	1	70	1,531,623	1,377,877	89,032	1,350	2,044	64,320	3,710,138	3,623,511	86,627	73		
416	153,886	12	2,399	2,980,984	2,620,368	130,250	528	104,557	124,672	5,900,140	5,672,320	227,820	74		
5	699			1,396,773	1,211,823	83,592	500	6,893	93,965	3,120,677	2,969,523	151,154	75		
107	23,947			10,194,720	5,956,137	761,041	3,823	31,312	3,442,007	16,200,226	11,891,365	4,308,861	76		
264	43,512	6	1,222	5,014,034	4,373,529	228,134	2,333	17,108	386,630	9,893,835	7,061,866	2,831,969	77		
2,255	490,023	209	26,805	28,033,840	25,613,227	550,112	6,619	90,971	1,772,911	54,515,226	51,070,906	3,144,318	78		
2,946	810,967	33	4,279	22,996,136	19,242,175	538,865	46,756	638,783	2,529,555	42,450,509	36,979,948	5,170,561	79		
4,403	1,706,496	13	4,600	23,039,987	20,617,089	142,224	138,227	54,625	2,087,826	44,223,845	30,856,505	5,717,020	80		
79	12,050	25	2,125	2,664,498	2,461,506	119,171	625	18,021	62,175	5,171,530	4,772,788	88,742	81		
1,225	517,553			5,901,817	5,127,467	81,616	1,713	19,919	621,296	8,565,273	1,067,228	2,437,501	82		
294	93,774			11,872,289	10,523,930	292,265	40,719	154,453	860,622	20,187,295	18,366,084	2,811,211	83		
3	936			10,617,333	9,716,556	176,901	120	303,142	420,319	17,432,721	15,171,151	281,550	84		
118	25,151	1	300	7,090,199	6,631,350	160,424	3,820	63,342	231,250	13,244,538	12,526,409	718,137	85		
199	62,634	6	948	4,600,394	3,638,251	139,435	1,152	105,759	3,015,907	11,369,172	11,650,141	312,031	86		
4,517	695,717	125	14,970	53,145,485	49,709,495	1,572,755	16,983	129,407	4,208,410	97,569,651	94,378,618	1,535,333	87		
681	198,668	23	2,450	5,622,210	50,801,272	424,200	175,210	8,045,594	8,045,269	82,922,674	76,177,170	4,305,804	88		
92	7,887			1,814,463	1,627,132	17,874	1,585	30,150	137,722	3,278,936	3,278,936	547,463	89		
18	5,200			1,751,166	1,644,223	49,912	20	17,205	41,806	3,234,962	2,966,373	3,658,590	90		
15	5,183	4	574	4,795,251	4,616,901	27,804	80	71,764	48,702	8,278,160	7,812,043	966,117	91		
332	83,339	163	17,828	7,994,751	7,525,201	149,735	4,560,380	7,857	244,428	14,390,823	14,314,828	218,206	93		
339	79,022		1,050	3,470,292	3,035,582	225,737	100	20,603	6,624	1,218,624	1,218,624	41,618,618	93		
3,772	1,042,360	69	8,702	46,029,536	42,274,100	98,077	79,548	209,919	4,276,762	92,476,652	88,625,680	4,857,572	94		
179	64,722	11	1,400	8,371,373	7,872,433	251,638	17,129	302,692	134,181	17,025,679	16,311,827	433,952	95		
868	254,076	13	1,828	3,521,078	2,984,747	107,915	830	29,154	398,432	6,961,287	6,592,206	37,081,926	96		
1,972	526,586	3	376	14,400,638	13,082,944	349,317	21,953	105,475	840,949	33,396,311	25,685,465	4,940,626	97		
3,662	581,336	73	10,042	28,271,445	26,710,765	513,716	20,063	65,467	961,494	45,289,449	45,857,630	2,811,918	98		
334	73,375	5	566	3,072,313	2,911,487	75,533	2,745	29,745	57,957	6,687,957	5,317,262	370,720	99		
99	27,724			2,715,249	1,946,829	58,137	150	13,208	157,965	2,888,824	1,935,764	1,46,910	100		
34,547	12,042,544	345	82,241	366,422,722	316,466,427	3,267,919	618,234	606,235	15,473,889	777,222,721	731,627,399	45,595,325	101		
184	31,754			2,542,750	2,380,934	31,365	2,097	12,825	115,565	5,100,408	4,548,008	552,400	102		
175	49,208	84	12,808	4,687,699	4,306,633	218,098	2,828	23,791	136,359	9,112,778	8,572,607	540,171	103		
76	17,865			25,260,162	27,985,863	646,379	4,881	13,277	606,762	42,339,321	61,946	104	104		
365	37,819			4,608,843	4,443,045	37,567	35,053	133,201	8,020,626	8,206,908	413,718	105	105		
444	86,831			4,604,099	4,183,115	41,280	6,588	203,028	170,085	7,482,378	7,019,253	463,125	106		
1,967	645,988	63	15,599	22,480,727	21,561,186	520,040	56,366	100,789	242,346	4,046,665	4,141,034	1,129,499	107		
791	244,263	79	13,384	9,415,455	8,593,156	255,325	11,363	107,113	418,696	16,363,729	14,088,542	2,251,187	108		
428	91,916	5	1,070	9,996,379	9,169,306	232,597	7,436	18,084	578,956	55,659,023	54,679,393	835,630	109		
188	18,426			4,384,364	4,123,693	55,173	1,671	20,281	178,944	7,167,064	6,945,906	1,929,837	110		
21,590	6,185,134	1,189	182,533	311,645,804	288,934,102	4,756,838	355,466	795,625	16,803,773	57,234,446	533,869,070	43,365,376	111		
1,371	375,736	348	86,398	69,392,195	62,507,433	3,048,018	15,164	274,917	4,046,665	126,859,657	123,708,729	3,150,931	112		
504	159,510			6,266,438	5,495,493	131,775	13,534	10,340	634,876	11,371,478	9,647,440	1,724,047	113		
46	18,732			12,307,106	11,796,140	169,838	7,510	84,238	749,399	25,427,603	20,692,639	4,734,964	114		
549	69,143	47	2,802	3,206,593	2,836,597	178,346	1,160	6,607	178,483	6,254,132	6,109,827	144,306	115		
2,290	672,239	40	7,357	39,704,341	36,510,604	817,070	90,964	294,158	2,081,445	77,467,283	65,376,018	8,091,265	116		
1	624			999,966	924,888	36,923	25	1,651	30,479	2,374,631	2,127,870	246,761	117		
142	27,650	4	400	5,701,973	5,160,708	156,209	4,670	2,265	378,121	10,395,102	10,204,622	190,478	118		
183	43,645	23	4,224	4,340,304	3,892,246	103,139	800	6,474	337,058	8,162,359	8,133,172	329,187	119		
778	173,626	89	11,234	12,009,352	10,344,494	833,251	2,250	146,586	602,751	29,855,165	19,529,837	1,325,328	120		
2,515	501,808	218	18,749	14,014,214	12,370,145	255,550	13,318	21,465	1,353,736	27,792,672	25,982,729	1,809,633	121		
2,668	698,556	154	21,970	33,320,398	31,569,736	311,370	93,424	63,566	1,282,346	65,061,156	63,586,630	1,504,526	122		
234	46,533			4,248,001	3,971,845	79,126	6,853	21,554	168,623	8,888,904	8,601,339	287,565	123		
440	45,279	50	2,000	6,033,631	5,641,173	153,961	2,660	13,194	222,329	10,421,582	9,165,906	1,239,521	124		
36	11,755	17	2,235	6,587,765	6,264,585	49,038	3,321	74,905	195,854	11,303,006	10,398,494	904,524	125		
880	220,946	16	1,850	7,484,333	7,130,920	8,885	5,072	220,557	11,196,141	11,456,201	45,940	126			
4,827	1,058,073	136	17,246	122,216,570	108,806,699	2,701,919	69,842	934,868	9,703,242	229,157,343	15,338,456	127			
543	176,072	12	1,908	15,867,573	15,049,746	197,277	26,159	22,017	57,572,374	33,053,073	31,581,984	1,453,089	128		
812	212,079	96	11,100	4,738,643	4,465,450	85,937	34,585	83,011	8,622,751	8,272,398	2,355,353	4,440,967	130		
14	5,207			1,966,818	1,809,572	57,038	5,055	3,393	91,760	4,624,419	4,624,419	1,325,328	130		

## STATISTICS OF MANUFACTURES.

TABLE 2.—TOTALS FOR THE 165 CITIES HAVING A

CITIES.	Number of estab- lish- ments report- ing.	Value of hired property.	Direct investment.						
			Value of plant.			Live assets.			
			Aggregate.	Land.	Buildings.	Machinery, tools, and implements.	Raw materials.	Stock in process and finished products on hand.	
131 San Antonio, Tex.	309	\$873,205	\$3,004,425	\$544,600	\$162,925	\$830,725	\$345,065	\$324,435	\$456,675
132 San Francisco, Cal.	4,059	30,575,810	74,834,380	7,935,535	6,613,851	20,300,815	9,251,569	13,132,718	17,539,813
133 Savannah, Ga.	244	779,294	5,379,774	844,448	1,040,268	1,384,887	322,103	380,820	1,397,248
134 Scranton, Pa.	177	539,600	16,237,271	1,152,484	2,888,540	4,298,342	2,478,821	1,136,839	4,282,245
135 Seattle, Wash. (b)	331	1,046,434	4,758,283	628,240	682,735	1,430,352	461,960	650,955	904,041
136 Sioux City, Iowa	196	1,575,175	5,222,626	735,747	569,450	959,551	408,799	1,424,175	1,124,904
137 Somerville, Mass.	104	3,041,562	3,885,000	938,900	658,570	600,693	380,000	772,690	888,051
138 South Bend, Ind.	208	361,545	11,224,887	906,887	1,441,177	945,947	2,560,542	2,377,690	3,077,754
139 Springfield, Ill.	374	687,150	3,641,415	319,040	496,335	1,138,512	347,543	411,556	858,429
140 Springfield, Mass.	692	3,019,598	13,199,283	1,266,000	2,078,698	4,055,647	1,308,956	1,760,031	2,729,945
141 Springfield, Mo.	277	385,590	1,454,613	244,815	186,638	349,028	190,022	151,119	332,993
142 Springfield, Ohio	372	881,812	14,967,931	804,266	3,269,982	2,022,498	951,495	1,260,000	6,459,710
143 Somers, N. Y.	146	5,141,463	29,000,000	1,192,482	3,268,422	1,024,202	2,720,000	3,120,138	5,139,997
144 Tacoma, Wash.	225	534,150	7,227,201	2,781,589	629,036	1,565,226	384,837	512,542	1,153,561
145 Taunton, Mass. (b)	316	656,880	7,891,382	484,680	1,163,105	1,979,646	778,033	1,762,255	1,723,663
146 Terre Haute, Ind.	367	518,073	4,965,184	521,500	889,561	1,363,178	845,386	552,658	792,901
147 Toledo, Ohio	734	2,279,040	12,709,372	1,369,328	2,071,140	3,171,354	1,783,806	1,503,089	2,801,655
148 Topeka, Kan.	371	876,175	3,282,899	355,600	760,425	1,058,437	333,955	237,881	537,101
149 Trenton, N. J. (b)	835	1,968,662	19,278,041	2,980,835	3,469,532	3,898,859	1,497,351	3,689,934	3,741,507
150 Troy, N. Y.	340	3,290,026	24,030,735	1,754,630	2,792,095	5,553,695	2,149,751	4,257,331	7,433,288
151 Utica, N. Y.	565	1,840,625	14,332,510	708,242	1,613,109	3,358,853	2,024,095	2,956,250	3,671,961
152 Washington, D. C.	2,295	6,601,939	28,865,089	5,438,756	5,396,278	8,543,897	1,849,540	2,211,088	5,425,530
153 Waterbury, Conn.	219	876,487	17,682,500	1,186,150	2,569,650	3,519,979	1,526,962	3,613,058	5,266,706
154 Wheeling, W. Va.	418	983,230	8,491,630	735,943	1,244,451	2,618,387	1,077,234	848,657	1,949,358
155 Wichita, Kan.	144	478,031	3,062,696	305,000	635,775	573,188	394,566	598,814	555,333
156 Wilkesbarre, Pa.	270	833,525	5,598,139	684,373	1,068,495	1,567,468	505,341	671,154	1,076,308
157 Williamsport, Pa. (b)	302	793,335	12,335,423	2,783,778	826,547	1,759,761	1,671,266	2,553,613	2,740,458
158 Wilmington, Del.	599	1,378,180	20,585,646	2,575,882	3,135,902	4,353,300	2,657,083	2,998,953	4,864,526
159 Wilmington, N. C.	121	141,166	1,752,667	174,350	269,244	646,865	171,891	179,049	311,272
160 Woonsocket, R. I.	201	962,560	10,056,619	836,405	1,238,838	3,519,812	1,047,500	1,677,182	1,776,582
161 Worcester, Mass.	996	4,679,140	25,230,620	1,752,855	2,455,949	5,836,413	3,765,212	4,565,173	6,855,018
162 Yonkers, N. Y. (b)	2,163,519	10,389,789	856,150	707,538	2,213,884	1,920,657	2,641,570	2,386,990	
163 York, Pa.	350	444,790	3,842,453	534,245	506,900	872,991	591,912	594,418	751,987
164 Youngstown, Ohio	245	418,014	7,542,742	646,585	992,160	2,170,663	792,246	912,688	2,028,400
165 Zanesville, Ohio	301	344,847	4,200,409	398,967	824,777	935,546	399,207	673,021	968,891

a Include internal revenue tax.

## CITIES HAVING A POPULATION OF 20,000 AND OVER.

13

POPULATION OF 20,000 AND OVER: 1890—Continued.

							AVERAGE NUMBER OF EMPLOYEES AND TOTAL WAGES.					
							Aggregates.		Officers, firm members, and clerks.			
Total.	Rent paid for tenancy.	Taxes. (a)	Insurance.	Repairs, ordi- nary, of buildings and machinery.	Amount paid to contractors.	Interest paid on cash used in the business.	All sundries not else- where re- ported.	Average number.	Total wages.	Males above 16 years.		
\$494,744	\$67,524	\$101,241	\$21,588	\$49,626	\$1,500	\$20,300	\$232,664	2,441	\$1,634,306	373	\$387,110	131
8,322,483	2,254,842	1,146,798	468,413	633,306	449,533	637,022	2,732,190	48,446	30,979,374	6,111	6,041,869	132
481,497	82,861	53,351	39,022	41,423	.....	57,732	210,108	2,760	1,362,120	319	291,672	133
874,621	50,573	220,926	41,736	321,968	9,300	72,370	157,448	9,123	4,273,012	285	340,026	134
495,061	131,119	88,357	51,367	30,207	5,300	42,006	146,705	4,048	3,405,323	275	319,912	135
										Number.	Wages.	
494,489	133,424	23,542	34,146	32,885	8,425	95,673	166,394	3,008	1,871,425	342	333,027	136
439,673	54,584	194,154	24,350	37,047	72	26,164	103,302	3,285	1,783,979	405	382,111	137
538,151	34,636	60,779	45,188	64,393	.....	42,582	290,579	6,088	2,842,104	310	325,986	138
303,368	53,272	57,461	14,646	63,015	2,765	22,947	89,262	3,269	1,745,158	342	324,725	139
875,334	226,271	131,225	48,040	70,621	16,750	56,629	295,798	10,230	5,968,894	871	910,328	140
270,601	34,767	29,302	8,652	8,516	125,385	14,863	49,116	1,422	677,146	98	81,520	141
1,046,292	67,250	53,882	35,806	27,090	100	186,454	675,710	6,698	3,195,441	521	507,271	142
2,689,781	289,187	380,839	78,925	190,006	795,098	178,064	782,662	17,518	8,520,677	1,778	1,719,010	143
464,674	72,652	75,321	39,914	63,643	.....	65,018	148,128	4,067	3,280,820	397	547,195	144
707,629	42,272	67,357	33,525	37,903	4,700	117,571	354,301	6,466	3,141,273	293	290,365	145
3,903,928	52,420	3,594,870	27,050	53,191	68,802	31,878	75,707	5,205	2,154,001	440	345,880	146
1,246,042	199,184	423,303	94,497	51,692	7,200	126,107	314,059	10,313	5,214,443	917	818,356	147
276,038	78,175	24,611	22,955	25,183	11,650	28,015	85,449	3,390	1,854,933	323	263,907	148
1,319,216	158,211	107,618	73,439	264,608	.....	250,816	464,474	14,984	7,968,894	1,001	1,034,016	149
2,837,302	249,846	328,051	79,722	248,533	165,877	299,382	1,476,372	25,157	9,544,762	1,118	1,167,120	150
992,294	146,754	202,049	40,438	84,358	4,800	125,804	388,091	12,158	4,326,711	913	84,619	151
1,589,114	545,117	238,054	47,097	154,352	.....	68,193	536,311	23,404	14,622,264	2,689	2,200,534	152
1,155,304	73,234	113,321	44,041	150,119	.....	97,918	676,671	10,354	5,608,654	465	600,667	153
1,205,031	88,155	634,313	29,080	59,341	.....	48,175	351,864	6,850	3,037,727	618	516,162	154
304,455	39,583	12,778	25,881	16,097	.....	53,093	157,023	1,656	907,933	223	226,017	155
578,640	65,489	94,228	20,323	41,301	191,027	32,269	183,993	4,405	2,058,978	256	247,052	156
626,646	58,496	55,449	86,643	77,649	59,829	97,002	188,578	6,113	2,677,579	418	387,307	157
1,131,618	102,044	124,962	64,940	149,174	182,312	121,432	386,754	14,377	7,664,148	897	904,057	158
105,571	14,729	12,928	12,633	16,709	3,800	15,081	29,691	1,499	549,868	126	84,786	159
393,282	75,108	40,105	39,965	76,620	.....	118,512	43,071	6,417	2,361,617	186	201,308	160
1,327,515	373,361	210,382	147,861	116,943	1,441	174,420	707,497	21,739	11,684,181	1,355	1,508,511	161
810,340	180,650	47,452	36,384	59,967	.....	57,777	12,592	11,303	5,677,145	776	725,508	162
358,635	36,697	101,870	18,957	31,311	.....	157,208	4,120	1,609,456	382	268,779	163	
462,785	42,678	56,297	33,606	136,118	5,460	62,805	125,821	5,843	3,607,659	317	295,771	164
393,616	27,980	79,990	17,824	55,280	.....	25,668	186,874	3,687	1,560,933	271	226,756	165

b See Exhibit A, page 16.

## STATISTICS OF MANUFACTURES.

TABLE 2.—TOTALS FOR THE 165 CITIES HAVING A

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.

Officers, firm members, and clerks—Cont'd.		Operatives, skilled and unskilled.						Pieceworkers.		
CITIES.	Females above 15 years.	Males above 16 years.		Females above 15 years.		Children.		Males above 16 years.		
Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	
131 San Antonio, Tex.	46	\$30,260	1,807	\$1,116,899	132	\$43,548	21	\$3,551	62	\$52,938
132 San Francisco, Cal.	571	346,389	25,599	18,149,095	4,429	1,490,428	964	185,312	6,909	3,777,662
133 Savannah, Ga.	22	11,100	2,099	968,812	83	22,397	31	4,187	197	62,652
134 Scranton, Pa.	13	4,152	7,200	3,515,378	819	126,643	319	39,580	266	177,411
135 Seattle, Wash. (a)	5	1,880	3,399	2,835,614	189	79,564	5	1,352	166	163,369
136 Sioux City, Iowa	37	17,822	2,315	1,365,659	134	39,264	52	7,235	110	102,998
137 Somerville, Mass.	91	44,831	2,233	1,180,236	320	81,897	6	1,249	127	70,310
138 South Bend, Ind.	28	11,556	3,309	1,562,027	318	81,089	146	26,951	1,374	683,981
139 Springfield, Ill.	74	30,125	2,337	1,225,822	269	63,645	25	3,245	135	78,687
140 Springfield, Mass.	220	114,930	6,073	3,611,157	1,256	399,277	70	14,005	871	541,566
141 Springfield, Mo.	28	8,273	976	493,439	117	23,810	52	4,701	100	50,418
142 Springfield, Ohio	71	25,498	5,246	2,319,358	159	33,278	29	4,958	614	292,225
143 Syracuse, N. Y.	170	68,657	10,299	5,202,394	1,748	392,718	177	28,662	1,971	878,580
144 Tacoma, Wash.	12	10,390	3,301	2,481,538	87	35,460	46	11,660	215	192,313
145 Taunton, Mass. (a)	25	13,714	4,171	2,136,774	1,28	392,683	64	10,739	432	242,736
146 Terre Haute, Ind.	45	18,679	3,023	1,308,101	225	51,563	184	22,578	739	306,574
147 Toledo, Ohio	62	67,655	6,749	3,529,731	1,131	251,190	151	20,253	916	464,326
148 Topeka, Kan.	23	11,673	2,605	1,433,946	221	58,124	64	9,429	117	71,508
149 Trenton, N. J. (a)	220	100,474	9,866	5,465,173	2,224	516,524	275	41,669	943	660,031
150 Troy, N. Y.	135	86,082	7,939	4,128,647	1,805	394,268	161	22,066	1,949	987,450
151 Utica, N. Y.	158	61,478	3,895	1,905,068	1,750	481,638	352	46,961	1,581	548,571
152 Washington, D. C.	309	157,294	15,869	9,732,366	2,599	1,092,106	128	22,050	1,251	992,496
153 Waterbury, Conn.	49	23,119	5,170	3,113,354	645	206,135	156	28,829	1,814	937,484
154 Wheeling, W. Va.	125	50,403	3,494	1,720,269	602	115,084	470	68,905	1,009	483,419
155 Wichita, Kan.	18	7,920	1,125	583,559	104	29,885	70	9,640	78	42,863
156 Wilkesbarre, Pa.	8	8,700	2,621	1,412,476	464	118,929	141	21,940	318	179,198
157 Williamsport, Pa. (a)	42	18,441	4,031	1,814,411	610	184,519	63	43,576	637	232,633
158 Wilmington, Del.	110	52,224	10,736	5,688,577	835	222,451	565	92,345	1,091	737,593
159 Wilmington, N. C.	15	4,474	1,104	123,719	85	15,158	74	8,716	74	11,405
160 Woonsocket, R. I.	41	19,080	3,173	1,311,806	2,317	656,703	461	75,590	54	23,112
161 Worcester, Mass.	130	65,196	14,705	8,126,010	2,258	649,755	155	26,549	1,678	940,631
162 Yonkers, N. Y. (a)	151	74,669	5,815	3,565,788	2,779	807,253	600	156,418	852	451,890
163 York, Pa.	69	20,399	2,501	1,064,746	180	33,463	71	6,277	682	116,790
164 Youngstown, Ohio	40	15,986	5,007	3,123,411	143	95,321	106	22,333	151	95,515
165 Zanesville, Ohio	28	8,357	2,300	985,290	357	56,837	60	7,495	427	231,043

a See Exhibit A, page 16.

## CITIES HAVING A POPULATION OF 20,000 AND OVER.

15

POPULATION OF 20,000 AND OVER: 1890—Continued.

AVERAGE NUMBER OF EMPLOYÉS  
AND TOTAL WAGES—CONT'D.

COST OF MATERIALS USED.

VALUE OF PRODUCTS.

Pieceworkers—Continued.

Females above 15 years.		Children.		Total.	Principal materials.	Fuel.	Rent of power and heat.	Mill supplies.	All other materials.	Total.	Principal products.	All other products, including receipts from custom work and repairing.
Number.	Wages.	Number.	Wages.									
3,755	\$975,709	108	\$9,910	\$2,387,984	\$2,193,566	\$125,776	\$820	\$19,419	\$48,403	\$5,623,612	\$5,468,741	\$154,871 131
9	1,300			78,656,470	72,249,962	1,769,392	161,296	128,012	4,347,803	135,625,754	126,633,361	8,960,363 132
200	37,722	21	2,100	3,297,804	3,082,214	101,420	5,303	15,810	90,056	6,319,066	5,997,911	321,155 133
9	3,832			16,922,758	15,425,837	709,588	4,815	31,593	750,919	21,341,745	23,070,007	1,271,738 134
				4,778,384	4,475,552	102,110	3,446	76,050	121,228	10,203,067	9,074,887	1,128,120 135
18	5,420			10,295,100	9,865,802	110,143	1,749	42,869	274,627	14,119,342	13,569,726	557,117 136
98	22,868	5	477	4,420,128	4,218,248	80,947	745	4,275	115,873	7,307,522	5,392,185	2,105,937 137
593	148,514	10	2,000	4,607,716	3,949,667	108,684	1,748	14,330	533,287	9,812,512	9,516,294	206,219 138
85	18,832	2	76	3,790,754	3,546,720	85,808	1,615	8,753	147,858	6,562,470	6,174,643	387,827 139
882	276,885	7	745	7,817,534	7,106,076	153,470	34,437	87,317	436,232	17,040,692	16,241,159	799,533 140
40	11,484	11	501	1,657,377	1,406,626	30,067	400	110	130,671	3,062,098	2,866,022	196,073 141
50	11,941	3	912	3,652,062	3,505,123	197,551	468	15,886	973,434	10,760,930	6,602,602	142
1,361	227,933	14	2,723	14,104,504	12,919,905	362,568	26,281	92,411	67,369	20,241,341	21,654,479	2,254,109 143
6	2,261			5,171,658	4,872,725	63,888	960	96,697	137,388	10,432,955	9,524,446	908,509 144
183	54,262			4,799,287	4,145,292	187,026	2,252	41,050	420,667	9,936,820	8,934,081	1,02,748 145
539	96,851	10	775	6,785,616	6,243,011	158,716	2,713	26,807	353,369	13,720,529	13,266,059	454,470 146
212	55,449	85	12,578	12,189,921	11,391,952	221,400	4,118	40,408	532,046	21,651,574	20,867,644	783,930 147
35	6,096	2	10	3,400,066	3,093,908	58,453	10,210	21,496	156,079	6,753,449	6,300,209	452,240 148
377	107,607	78	13,400	12,625,400	11,291,126	734,571	1,465	42,547	548,691	25,628,223	24,986,117	692,106 149
12,310	2,752,516	37	6,638	13,150,156	11,539,228	692,771	28,851	53,260	846,016	29,249,750	21,665,008	4,650,742 150
4,029	426,470	17	3,903	7,790,766	7,408,315	123,411	2,798	28,464	227,778	15,615,715	14,518,708	1,007,007 151
560	424,334	5	1,060	17,194,667	15,128,605	412,575	15,303	70,257	1,567,926	39,331,437	37,273,287	2,058,180 152
1,972	612,706	83	16,300	5,715,921	5,043,364	232,982	6,446	312,923	1,100,206	17,712,820	15,741,204	1,968,625 153
497	78,240	35	3,249	7,381,946	6,243,620	473,830	4,017	1,824	656,589	13,022,584	12,762,184	259,805 154
68	8,047			3,880,478	3,127,029	54,314	1,230	5,176	122,669	5,074,918	4,789,985	284,928 155
567	75,688			4,026,579	3,682,971	57,116	1,682	111,426	173,354	7,746,371	7,393,975	352,396 156
252	46,978	31	3,554	5,919,284	5,735,002	63,003	3,020	59,155	59,104	11,107,037	10,447,441	659,596 157
125	32,273	18	3,828	13,060,152	11,968,244	428,497	5,265	64,935	583,211	24,568,125	21,640,802	2,927,323 158
21	1,610			1,014,384	937,449	22,269	350	8,624	45,692	1,904,147	1,643,134	261,013 159
170	39,468	15	1,550	5,532,266	5,142,426	118,204	13,252	60,163	198,241	9,613,264	8,860,183	753,081 160
1,388	370,262	60	7,174	21,208,904	17,693,834	738,764	62,962	142,773	2,570,571	39,533,869	36,127,933	3,405,936 161
389	111,661	7	937	10,995,699	9,338,617	202,648	9,053	30,189	1,415,192	21,319,017	20,762,749	556,268 162
476	85,755	59	8,387	3,170,840	2,701,608	101,315	1,507	3,886	362,524	5,968,223	5,328,924	639,299 163
79	19,032			9,380,929	7,708,519	1,063,691	500	14,393	603,826	14,667,260	14,092,937	574,323 164
244	44,925			3,331,626	2,809,578	253,071	1,235	4,716	263,026	6,053,484	5,855,808	197,676 165

## STATISTICS OF MANUFACTURES.

## EXHIBIT A.—TIMBER PRODUCTS NOT MANUFACTURED AT MILL.

(See text for explanation of data.)

CITIES.	Number of estab- lish- ments re- porting.	Capital. (Direct in- vestment.)	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.		Miscel- laneous expenses.	Cost of ma- terials used.	Value of products.
			Em- ployés.	Wages.			
Bay city, Mich.....	9	\$1,583,840	592	\$95,978	\$386,967	\$302,926	\$880,142
Detroit, Mich.....	3	2,782,061	737	367,136	46,391	553,157	1,218,920
Duluth, Minn.....	11	1,013,017	800	113,826	77,280	141,959	393,303
Minneapolis, Minn.....	53	9,382,046	4,661	995,894	520,482	1,135,001	3,227,100
Muskegon, Mich.....	13	2,949,755	1,262	360,320	104,125	505,346	1,112,661
Oshkosh, Wis.....	10	544,345	434	71,379	23,064	53,250	182,042
Saginaw, Mich.....	25	5,253,307	3,236	724,304	689,413	851,965	2,271,271
St. Paul, Minn.....	3	252,500	89	47,670	5,983	127,570	184,705

NOTE.—In addition to the above, the following named cities report less than 3 establishments, and in order to avoid disclosing the operations of individual establishments these have been included in the totals given in Table 2 for the respective cities: Breckton, Mass., 1; Cincinnati, Ohio, 1; Evansville, Ind., 1; Grand Rapids, Mich., 1; Lewiston, Me., 1; Louisville, Ky., 1; Manchester, N. H., 1; New Orleans, La., 1; Peoria, Ill., 1; Philadelphia, Pa., 1; Providence, R. I., 1; Rochester, N. Y., 1; St. Louis, Mo., 1; Seattle, Wash., 2; Taunton, Mass., 1; Trenton, N. J., 1; Williamsport, Pa., 1; Yonkers, N. Y., 1.







